ARPEGE MASTERK

CONFIGURATION AND USER MANUAL OF THE INDICATOR IDL 55 WEIGHBRIDGE/SCALE SOFTWARE

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Date	Edition number	Object of the modification
04/11/2011	00	Original.
27/04/2012	01	Update after certification: Change CRC in 2DAD.
12/07/2012	02	Update.
01/07/2015	03	From the software release number **Si0PW00.115** : - Addition of the PT6S3 protocol. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*") - Addition of the multiport (COM1/COM2) management for ERIC and PT6S3 protocols.
27/07/2015	04	Correction of the contrast adjustment.
23/11/2015	05	Remark for the contrast adjustment.
16/06/2016	06	Addition Spanish language and keyboard type for Spanish.
12/07/2017	07	From the software release number **Si0PW00.117** : - Addition of the JBUS/MODBUS protocol. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*") - Addition of the MODBUS TCP protocol with XPORT ETHERNET board. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*") - Addition of the "**CanMK-4I4O gateway**" and "**CanMK-FB gateway**". (Refer to "*3.4.7. CAN bus/Options peripherals*") - Addition of the loading function. (Refer to "*2.1.6. Start of a loading cycle:* F7 ")
16/10/2018	08	Update and addition remark on address for MODBUS TCP.
08/02/2019	09	Update of the flow for Fieldbus commands execution. (Refer to "*5.1.2.3. Command launch*")

SUMMARY

1. PRESENTATION

1.1. The hardware

1.1.1. Technical characteristics

Maximum number of scale divisions (legal for trade) : 6000.
Sensitivity : 0.5 µV.
Power supply of the load cell : 5 V square wave.
Number of measurements / second, (fast) : 60, (180).
Load impedance (analog load cells) : > 45 ohms.

Zero visualized at 1/4 scale division.
Digital adjustment conversational by the front panel.
DC power supply 12 V_{DC}.
Power consumption: 20 VA max, according to the configuration.
Internal clock and memory backed up by a battery.
LCD screen 320 pixels by 240 pixels composed of the weight on 6 digits of 15 mm and of a complete operator guide.
PC keyboard.

1.1.2. The peripherals

In standard version the IDL 55 indicator disposes of:

❖ One serial link:
COM1 **:** RS232. (Short distances link: 10 meters max.)

❖ A parallel interface:
LPT **:** For the printing through a parallel printer. (Short distance link: 3 meters max.)

❖ An input for the analog load cells:
M1 **:** analog load cells(s) 6 wires. (Long distance link: 100 meters max.)

***Reminder:* Only one cable must be connected on M1. The parallel mounting of the load cells must be done separately in a junction box.**

❖ A CAN bus interface:
MASTER CAN **:** Digital load cell(s), Terminals, Remote displays, CanMK gateways. (Long distance link: 1000 meters max.)

1.1.3. The options

❖ One serial link:
COM2 **:** RS232, RS485, active or passive current loop, Ethernet. (Long distances link: the maximum length depends of the option board type)

❖ A USB memory stick reader "**EXT. MEM.**". It allows the saving of the calibration and the calibration parameters (Metrological parameters, operating parameters) as well as the application parameters.

❖ 2 types of printers are available:
- ARPEGE MASTER-K 80 columns listing printer.
- ARPEGE MASTER-K 40 columns band printing.

❖ 3 types of weight remote displays can be connected:
- RP 15 : 15 mm remote display.
- RP 75 : 75 mm remote display.
- RP 75 HL : 75 mm remote display with high luminosity.

❖ 1 or 2 VIGILE TERM or GARDIANE terminal(s).

❖ CanMK gateways:
- CanMK-4I4O : Optically isolated 4 inputs / 4 outputs. (0/10V or 4/20mA option)
- CanMK-FB : Field bus gateway. (PROFIBUS, DEVICENET, MODBUS TCP,…)

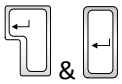
1.1.4. Displays and Indicator Lights

The IDL 55 indicator disposes of an LCD graphic display for the weight and for the operator guide that offers a great flexibility of the operating system to the operator.
The weight present on the scale is displayed in real time, with its states (Gross, Net, unit, center-of-zero, …), in the upper part of the LCD display. The information's of the operator guide facilitating the indicator use, are displayed on the lower part of the LCD display.

Legend:
- 1 ⇒ Application part. (Menu, parameters, ...)
- 2 ⇒ Indicates the type of the displayed weight: Gross (B/G) or Net. (Net)
- 3 ⇒ Indicates the actual weighing range: W1 or W2.
- 4 ⇒ Weight on 6 digits of 15 mm height.
- 5 ⇒ Indicates if the displayed weight is stable ( ) or not stable. (~)
- 6 ⇒ Indicates the weight unit: kg or t .
- 7 ⇒ Indicates a « center-of-zero » at a zero balance of 1/4 scale division. (0) or not ( )
- 8 ⇒ Indicates that the data displayed is a DATA.
- 9 ⇒ Metrological part. (Weight, Metrological indications, ...)
- 10 ⇒ Indicates if the displayed weight is a high resolution display (HP) or not ( ).

1.1.5. The keyboard of the IDL 55

The IDL 55 is equipped with a **standard computer keyboard** allowing an easy and fast use.

Key	Name	In the menus	In the seizure pages	In the seizures
	Enter / Validation	Access to the pointed function in the menu.	Validate a seizure / pass to the next seizure.	Validate the seized data.
	Escape	Quit the menu / Return to the previous menu.	Quit the seizure page.	Quit the seizure.
	Up arrow	Go to the previous function.	Go to the previous seizure.	
	Down arrow	Go to the next function.	Go to the next seizure.	
	Left arrow	In the "**Weighing Menu**", pass to the previous tab.		Change the value of a multiple choice seizure data and move the cursor to the left in an alphanumeric seizure.
	Right arrow	In the "**Weighing Menu**", pass to the next tab.		Change the value of a multiple choice seizure data and move the cursor to the right in an alphanumeric seizure.
	Home / Beginning of page	Go to the first function.	Go to the first data to be seized.	
	End of page	Go to the last function.	Go to the last data to be seized.	
	Space			Change the value of a multiple choice seizure data.
	Back space			Erase the previous character of an alphanumeric seizure.
	Insert			Insert a space in an alphanumeric seizure.
	Delete			Delete completely the data of an alphanumeric seizure or reset the data of a numeric seizure.
	Capital letters lock	Pass from upper-case to lower-case letters and vice-versa.		
	Tabulation	Only for the keyboard types "**ar_SA**" and "**fa_IR**", pass from the standard character mode (Latin characters) to the extended character mode (Arabic characters…) and vice-versa.		
	Scroll Lock	In the "**Weighing menu**", remind temporarily the identification screen of the indicator.		

Key	Name	In the menus	In the seizure pages	In the seizures
F1	F1	In the "**Weighing menu**", execute the weighing of a vehicle in "input" (1st weighing) or the automatic weigh in/weigh out, this key has another functionalities according to the menu in progress.		
F2	F2	In the "**Weighing menu**", execute the weighing of a vehicle in "output" (2nd weighing), this key has another functionalities according to the menu in progress.		
F3	F3	In the "**Weighing menu**", execute the weighing of a vehicle with a programmable tare, this key has another functionalities according to the menu in progress.		
F4	F4	In the "**Weighing menu**", execute a Gross/Tare/Net weighing, this key has another functionalities according to the menu in progress.		
F5	F5 (DSD)	In the "**Weighing menu**", allows the access to the DSD management menu. (Data Storage Device), this key has another functionalities according to the menu in progress.		
F6	F6	In the "**Weighing menu**", access to the management / parameters menu, this key has another functionalities according to the menu in progress.		
F7	F7	In the "**Weighing menu**", Start a loading cycle, This key has also other functionalities according to the menu in progress.		
F8	F8	In the "**Weighing menu**", Reprinting of the latest weight ticket, this key has another functionalities according to the menu in progress.		
F9	F9 (Zero)	Implementation of the semi-automatic zero operation, the semi-automatic zero operation cancels the tare operation.		
F10	F10 (Gross/Net)	Temporary reminder of the GROSS weight when a tare operation is implemented.		
F11	F11 (Tare)	Tare of a mass present on the scale.		
F12	F12 (PT)	In the "**Weighing menu**", enter a tare value through the keyboard.		

Key	Name	In the menus	In the seizure pages	In the seizures
Alt Gr + F9	AltGr + F9	In the "**Weighing menu**", Access to the session management.		
Alt Gr + F10	AltGr + F10	In the "**Weighing menu**", activates the high resolution weight display during 5 seconds.		
Alt Gr + F11	AltGr + F11	In the "**Weighing menu**", load the font character table for the "**ESC/P2 FARSI**" printing mode.		

Remarks:

- The Led «Scroll Lock» (On top at the right side of the keyboard) allows knowing in which character mode is the indicator :
  - ON → Extended character. (Arabic character for the keyboards "**ar_SA**" et "**fa_IR**")
  - OFF → character. (Latin character)
- The key "AltGr" is located to the right of the space bar key, on some keyboards, it is named "Alt".

1.1.6. Contrast adjustment of the display

The contrast adjustment of the display is performed using the trimmer on the rear panel: - +.

Remarks:

If the transition from one window to another one causes a modification of the contrast please repeat the contrast adjustment of the display.

In order to proceed adjustment reset, set the contrast adjustment trimmer to get a “blue” screen, then gradually increase the contrast by making several rounds on the trimmer until the correct contrast adjustment is reached. This adjustment requires to make several rounds on the trimmer.

1.2. The software

The IDL 55 indicator, equipped with its weighbridge software was conceived to offer the weighing functions on scales or weighbridges.

The weighbridge/scale software disposes of:

- 10 files,
- 2 digital references of 6 digits,
- 2 alphanumerical references of 16 characters,
- 2 computable numeric references of 8 digits,
- 4 weighing modes :
  - Manual tare,
  - Semi-automatic tare,
  - Tare file,
  - Weigh in / Weigh out system, (Input/Output)
- Standard or configurable ticket layout,
- Simple totals on the files 1, 2, 3 and 4.
- Crossed totals between the files 1, 2, 3 and 4.

The files:

File n° 1:
Name: 16 characters maximum.
Size: 1000 records.
Structure: - Call code on 6 digits.
- Label on 21 characters.

File n° 2:
Name: 16 characters maximum.
Size: 1000 records.
Structure: - Call code on 3 digits.
- Label on 21 characters.

File n° 3:
Name: 16 characters maximum.
Size: 1000 records.
Structure: - Call code on 3 digits.
- Label on 21 characters.

File n° 4:
Name: 16 characters maximum.
Size: 1000 records.
Structure: - Call code on 3 digits.
- Label on 21 characters.

File n° 5:
Name: 16 characters maximum.
Size: 1000 records.
Structure: - Call code on 3 digits.
- Label on 21 characters.

Fixed tares file:
Size: 1000 records.
Structure: - Reference on 10 characters.
- Tare value on 6 digits.
- Badge code on 5 digits.
- Value of the GVWR on 5 digits.
- Code of file n°1 on 6 digits.
- Code of file n°2 on 3 digits.
- Code of file n°3 on 3 digits.
- Code of file n°4 on 3 digits.
- Code of file n°5 on 3 digits.
- Value of the simple data n°1 on 6 digits.
- Value of the simple data n°2 on 6 digits.

DSD file:
Size: 16 300 weights.
Structure: - DSD N° on 6 digits.
- Date on 6 digits.
- Time on 4 digits.
- Vehicle number on 10 characters.
- Code of file 1 on 6 digits.
- Code of file 2 on 3 digits.
- Code of file 3 on 3 digits.
- Code of file 4 on 3 digits.
- Value of the simple data n°1.
- Gross on 5 digits.
- Tare on 5 digits.
- Net on 5 digits.
- Status of the weight on 1 digit.
- Code of the operator file on 2 digits.

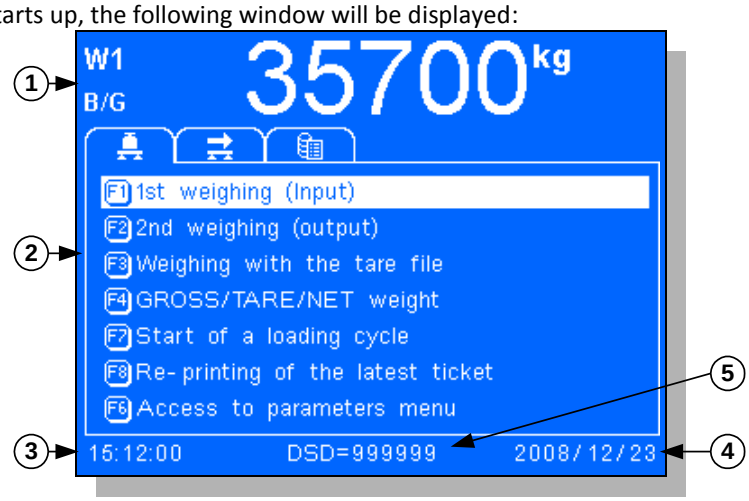
Overload file:
This file allows the traceability of the last fifty overloads that occurred on the load receptor.
Size: 50 records.
Structure: - Date on 6 digits.
- Time on 6 digits.
- Value of the overload.

Operator file:
This file is used for the sessions management.
Size: 10 records.
Structure: - Call code on 2 digits.
- Operator name on 16 characters.
- Utilization rights on 1 digit. (Operator or Administrator)
- Connection code on 4 characters.

File of the input weights (vehicles in and not out yet):
This file is enabled in case the weigh in / weigh out system is selected.
Size: 300 records.

2. WEIGHING MENU

Once the indicator starts up, the following window will be displayed:



Legend:

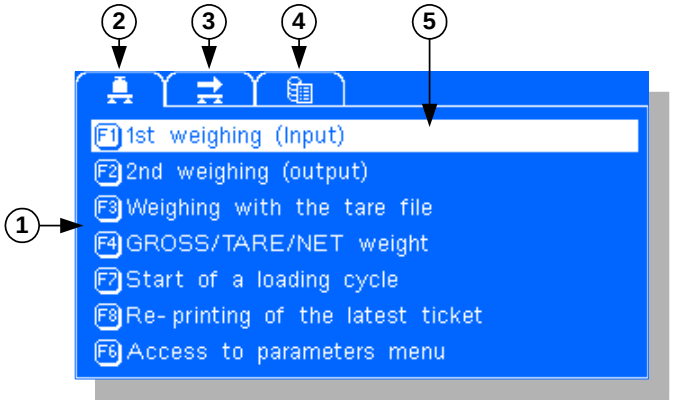
- 1 ⇒ Weight display zone.
- 2 ⇒ The various parts of the "**Weighing menu**".
- 3 ⇒ Actual time.
- 4 ⇒ Actual date.
- 5 ⇒ DSD number for the next weighing.

Remark: Additional information can be displayed near the DSD number of the forthcoming weight.

The "**Weighing menu**" is composed of three windows, to pass from one window to the other, you must press on the keys ◄ and/or ► :

- The window "*: Weighing functions*".
- The window "*: List of the input* weights".
- The window "*: Fast access to the* files".

2.1. : Weighing functions



Legend:

- 1 ⇒ Available weighing functions.
- 2 ⇒ The window in progress.
- 3 ⇒ The following window.
- 4 ⇒ The previous window.
- 5 ⇒ Function actually pointed.

In this first window, you have the list of the usable weighing functions. You may start them either by pressing on the appropriate key (from F1 to F8) either by pressing on the enter key once the required function is pointed. To point the required function, you must use the up arrow and down arrow keys.

Remark: This list is "dynamic", according to the configuration of the application, it is possible that some functions will not be available.

2.1.1. Weigh in (Input weighing): F1

To execute an input weighing, you must press on the key F1.
Enter the vehicle number present on the weighbridge as well as the validated data. After the weight stability, the weight is memorized and printed.

Remarks:
- If the entered vehicle number corresponds to a vehicle already in but not yet out, and also if the record file of the input weights is full, a « Pop-up » window will signal it in an error message.
- Function available according to the configuration. (See *3.4.2.*)

2.1.2. Weigh out (Output weighing): F2

To execute an output weighing, you must press on the key F2.
Enter the vehicle number present on the weighbridge as well as the validated data. After the weight stability, the weight is memorized and printed.

Remarks:
- If the entered vehicle number corresponds to a vehicle already out but not yet in, a « Pop-up » window will signal it in an error message.
- Function available according to the configuration. (See *3.4.2.*)

2.1.3. Auto. weigh in/weigh out : F1

To execute an automatic weigh in/weight out, you must press on the key F1.
Enter the vehicle number present on the weighbridge as well as the validated data. If the weigh in has already been done for this vehicle the indicator will do the weigh out otherwise it will be do the weigh in.
After the weight stability, the weight is memorized and printed.

Remarks:
- If the record file of the input weights is full, a « Pop-up » window will signal it in an error message.
- Function available according to the configuration. (See *3.4.2.*)

2.1.4. Weighing with the tare file: F3

To execute a weighing with the tare file, you must press on the key F3.
Enter the vehicle number present on the weighbridge as well as the validated data. After the weight stability, the weight is printed.

Remark: If the entered vehicle number does not exist in the tare file, a « Pop-up » window will signal it in an error message, in case that the validated vehicle number is empty (only spaces) you will access directly to the fixed tares file.

2.1.5. Gross/Tare/Net weighing: F4

To execute a Gross/Tare/Net weighing, you must:
- Position the vehicle on the weighbridge.
- Execute a tare weighing, either automatic (key F11) or manual by seizing its value. (key F12)
- Press on the key F4, enter the vehicle number present on the weighbridge as well as the validated data.
- After the weight stability, the weight is printed.

2.1.6. Start of a loading cycle: F7

If the parameter "**Type**" of the "**CanMK-4I4O gateway**" is greater than "**2**", it will be possible to start automatic loading cycles with two dosing speeds and a Gross or Net set value.

For this you must:

- Park the vehicle on the weighbridge.
- Press on the key F7, A seizure "Pop-up" window will be displayed, choose the required loading mode and validate. There are four possible loading modes:
  - **Loading with a tare weighing.**
    This mode operates in the weigh in / weigh out mode, the loading is started between the two weighing. It allows, according to the parameters, printing and/or seizing the data before and after the loading cycle.
  - **Loading with an automatic tare weighing.**
    This mode operates in the Gross/Tare/Net weighing, the loading is started after an automatic tare operation. It allows, according to the parameters, printing and seizing the data before the loading cycle.
  - **Loading with the tare file.**
    This mode operates in the weighing with a tare file mode, the loading is started with the tare value stored in the tare file and the GVWR value is tested. It allows, according to the parameters, printing and/or seizing the data before the loading cycle.
  - **Loading with a manual tare. (PT)**
    This mode operates in the Gross/Tare/Net weighing, it allows, according to the parameters, printing and seizing the data before the loading cycle.

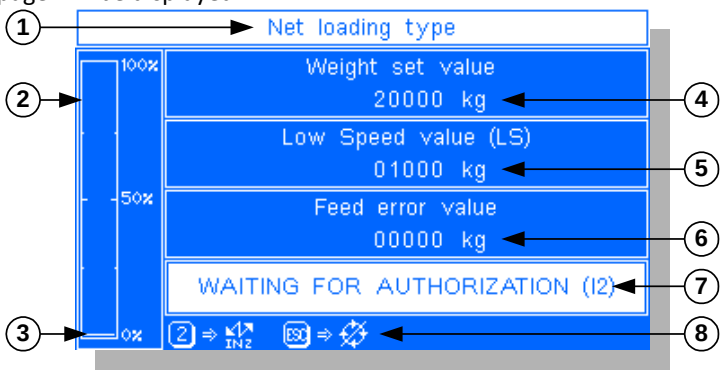
- Seize the vehicle number present on the weighbridge as well as the validated data.

- Then you will get the screen with the set values to be filled. You must enter the value of the set value, the value to be loaded in low speed (LS) and the feed error value (FE). If the parameter "**Operation of the 4I/4O option board**" is equal to "**2**", you must also define if the loading cycle will be executed in gross or net weight.

Remarks:

- The set value cannot be greater than the maximum range of the scale, the Low Speed (LS) cannot be greater than the set value and the Feed Error (FE) cannot be greater than the set value. In case of a wrong seizure of one of these values, the maximum authorized will be forced.
- If the screen for the set value is displayed again after the validation of the latest data, this means that the sum of the Net set value and of the tare value is greater than the maximum range of the scale.

The following loading page will be displayed.



Legend:

- 1 ⇒ Loading type in progress.
- 2 ⇒ Bar graph zone.
- 3 ⇒ Bar graph indicating the percentage of the accomplished loading. (0% in the example)
- 4 ⇒ The value of the set value previously seized.
- 5 ⇒ The value of the Low Speed (LS) previously seized.
- 6 ⇒ The value of the Feed Error (FE) previously seized.
- 7 ⇒ Actual stage of the loading.
- 8 ⇒ function key(s) usable at the actual stage of the loading.

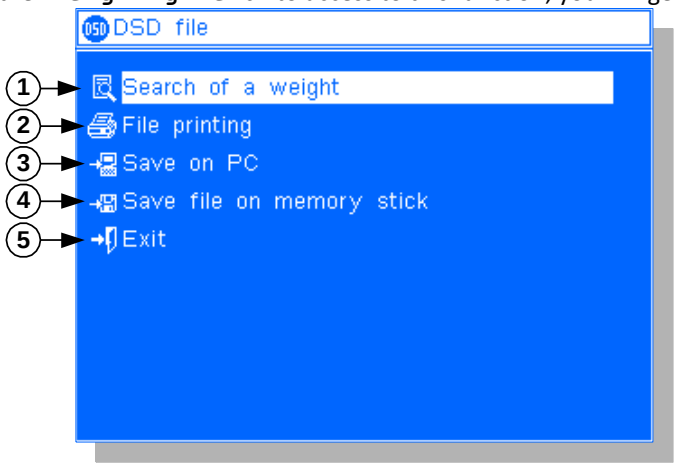
- Once the loading is accomplished and after obtaining the weight stability, the weight will be printed. In case of a loading with the tare weighing, you must seize the validated data then the weight will be printed.

The possible stages of the loading:

Stage	Designation	Possible action
WAITING AUTHORIZATION (E2)	The loading is ready to be started, The indicator is waiting for the dosing authorization.	[2] ⇒ Dosing authorization. [ESC] ⇒ Suspension of the loading. Input I2 ⇒ Dosing authorization. Input I3 ⇒ Suspension of the loading.
HS IN PROGRESS	The loading is being done under high speed.	[ESC] ⇒ Suspension of the loading. Input I3 ⇒ Suspension of the loading.
LS IN PROGRESS	The loading is being done under low speed.	[ESC] ⇒ Suspension of the loading. Input I3 ⇒ Suspension of the loading.
FE IN PROGRESS	The loading is finished, the final drainage of the product is in progress. (Feed error)	[ESC] ⇒ Suspension of the loading. Input I3 ⇒ Suspension of the loading.
WAITING FOR STABILITY	The final drainage of the product is finished, the indicator waits for the weight stability.	[ESC] ⇒ Suspension of the loading. Input I3 ⇒ Suspension of the loading.
SUSPENDED !	The loading cycle is suspended.	[F1] ⇒ Resume the loading cycle. [F2] ⇒ Cancel the loading cycle. Input I1 ⇒ Resume the loading cycle. Input I4 ⇒ Cancel the loading cycle.

2.1.7. DSD management: [F5]

Press on the key [F5] in the "**Weighing menu**" to access to this function, you will get the following screen:



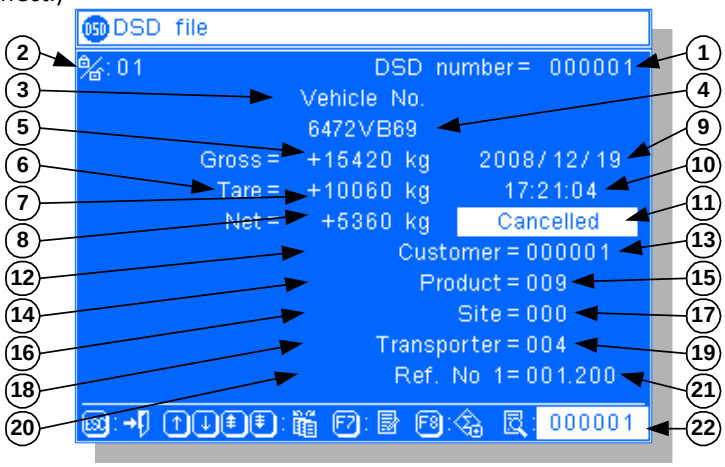
Legend:

- 1 ⇒ Search for a weighing in the DSD file function. (Function actually pointed)
- 2 ⇒ Printing of a DSD file from date to date function.
- 3 ⇒ Saving of the DSD file on a computer from date to date function.
- 4 ⇒ Saving of the DSD file on a memory card from date to date function.
- 5 ⇒ Quit this menu and return to the weighing menu.

You may access to the required function by pressing on the enter key once this function is pointed. To point it, you must use the up arrow and left arrow keys.

2.1.7.1. Search for a weight in the DSD file

Once this function is validated, the following screen will be displayed. (If there are no weights in the DSD file, this function has not effect.)



Legend:

- 1 ⇒ DSD number of the displayed weight.
- 2 ⇒ Code of the operator who made the weighing. (Displayed only if the session management is enabled, refer to *2.5.*)
- 3 ⇒ Identifier. (By default: "**Vehicle No**")
- 4 ⇒ Input/Output identifier label of the displayed weight.
- 5 ⇒ Gross weight of the displayed weight.
- 6 ⇒ Tare type, according to the type, you may have "**Tare**" for a classic tare or "**PT**" for a manual tare.
- 7 ⇒ Tare value of the displayed weight.
- 8 ⇒ Net weight of the displayed weight.
- 9 ⇒ Date of the displayed weight.
- 10 ⇒ Time of the displayed weight.
- 11 ⇒ State of the displayed weight, according to the state you may have the message "**Cancelled**" or not.
- 12 ⇒ Name of the file N°1, by default: "**Customer**".
- 13 ⇒ Code of the file N°1 of the displayed weight on 6 digits.
- 14 ⇒ Name of the file N°2, by default: "**Product**".
- 15 ⇒ Code of the file N°2 of the displayed weight on 3 digits.
- 16 ⇒ Name of the file N°3, by default: "**Site**".
- 17 ⇒ Code of the file N°3 of the displayed weight on 3 digits.
- 18 ⇒ Name of the file N°4, by default: "**Transporter**".
- 19 ⇒ Code of the file N°4 of the displayed weight on 3 digits.
- 20 ⇒ Name of the simple data N°1, by default: "**Ref. No 1**".
- 21 ⇒ Value of the simple data N°1 of the displayed weight on 6 digits and a decimal point.
- 22 ⇒ Seizure zone of the DSD number of a weight to be displayed.

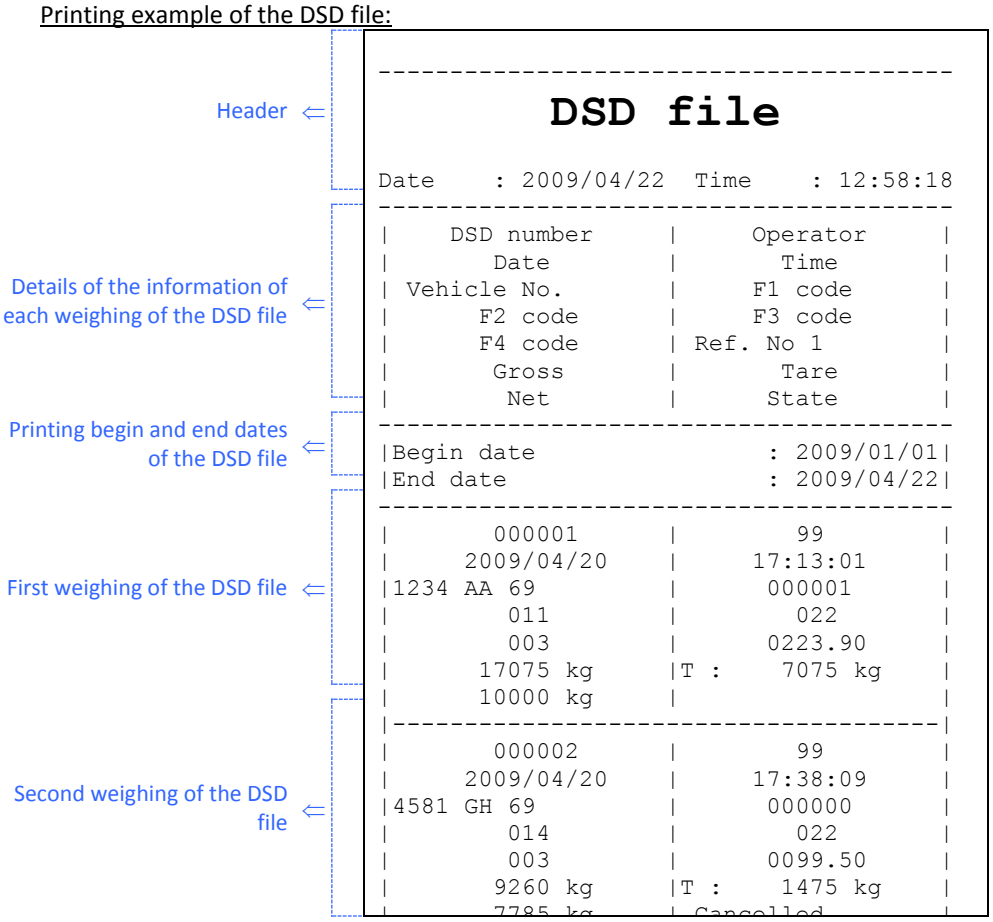
Use of the keyboard:

- The keys ↑ and + allow the access to the next weight.
- The keys ↓ and - allow the access to the previous weight.
- The key Page Up allows to access to the tenth next weight. (Within the DSD file limits)
- The key Page Down allows to access to the tenth previous weight. (Within the DSD file limits)
- The key F7 allows to access to the modification of the none-metrological information of the weight.
- The key F8 allows cancelling or enabling the weight according to its state. A cancelled weight will not be taken into account during the totals, however but it will not be deleted from the DSD.
- The key ESC allows quitting and returning to the DSD management menu.

2.1.7.2. Printing the DSD file from date to date

Once this function is validated a seizure "Pop-up" window will be displayed. Choose the begin date of the printing and validate, then choose the end date of the printing and validate.
The printing is launched. A "Pop-up" window will be displayed during this operation then you will return to the DSD management menu.

Printing example of the DSD file:



For each weighing of the DSD file, you will get the following information: DSD number, the operator code (code at 99 if the session management is not used), date of the weighing, time of the weighing, identification label, code of the file N°1 of the weight, code of the file N°2 of the weight, code of the file N°3 of the weight, code of the file N°4 of the weight, value of the simple data N°1 of the weight, Gross weight of the weight, tare type and tare values of the weight, Net weight of the weight, Status of the weight.

2.1.7.3. Saving of the DSD file on a computer from date to date.

For this you must: *(Example of a transfer on COM1 of the indicator and the computer)*

- Connect the PC (on Com1) with the IDL (on Com1).
- Launch the Hyper terminal software. (Access path of the hyperterm.exe: **"C:\Program Files\Accessories\HyperTerminal\HYPERTRM.EXE"**)
- Give a name to the connection and validate (TERMINAL.IDL).
- Then in the header "Connect using" you must validate "Direct to Com1".
- Then, configure the connection at 9600 Bauds, 8 bits, no parity, one stop, and no flow control.
- Always under HyperTerminal, you must go to "Transfer" then in "Capture the text", define the name of the record file and validate with "Start".

The PC is now ready to communicate with the indicator. You may validate the saving of the DSD file function.
Once this function is validated a seizure "Pop-up" window will appear, choose the communication port to be used for the saving and validate.

A seizure "Pop-up" window will be displayed. Choose the begin date of the saving and validate, then choose an end date for the saving and validate.
The saving is launched. A "Pop-up" window with a bar graph will be displayed during this operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the DSD management menu.
Once the transfer is finished, you must close the capture. For this, on your PC, go to "Transfer" then to "Capture the text" and "Stop".

Remark: The file transferred is a text file with separators by tabulation (.TXT), it may be directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

2.1.7.4. Saving of the DSD file on a memory card from date to date.

Once this function is validated, a "Pop-up" confirmation window will be displayed, choose if yes or no you want to execute the saving then validate. (By default, the choice is no)
A seizure "Pop-up" window will be displayed. Choose the begin date of the saving and validate, then choose an end date for the saving and validate.
If already a "FIC_PES_.TXT" file exists on the memory card, a "Pop-up" confirmation window will be displayed, choose if yes or no you want to erase this file then validate. (By default the choice is no)
The saving is launched. A "Pop-up" window with a bar graph will be displayed during this operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the DSD management menu.

Remark: The file transferred is a text file with separators by tabulation "FIC_PES_.TXT", it may be directly exploited by a spreadsheet (Ex: EXCEL), pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

2.1.7.5. Quit the menu and return to the Weighing Menu.

Once this function is validated, or when you press on the key ESC, you will return to the "**`Weighing menu`**".

2.1.8. Re-printing of the latest weighing ticket: F8.

To re-print the latest weighing ticket, you must press on the key F8.
And the ticket of the latest weighing done will be re-printed.

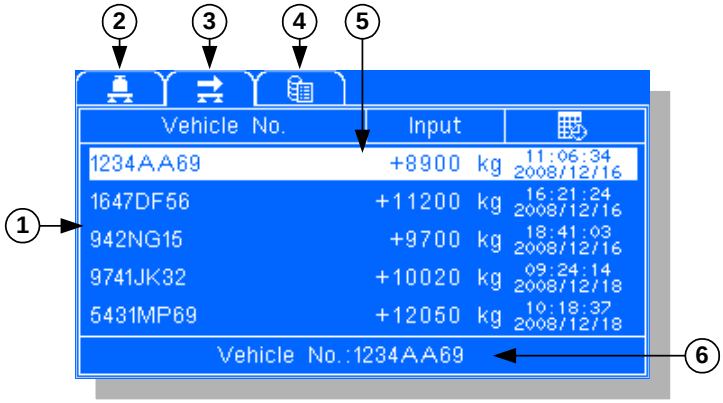
2.1.9. Access to the management menu: F6.

To access to the "**`Management menu`**", you must press on the key F6. The following seizure "Pop-up" will be displayed.

Enter the key code "**7806**" and the following "**Management menu**" will be displayed.

Refer to paragraph "*3. MANAGEMENT MENU*" For the details of the operation of this menu.

2.2. ⇄ : List of the input weights

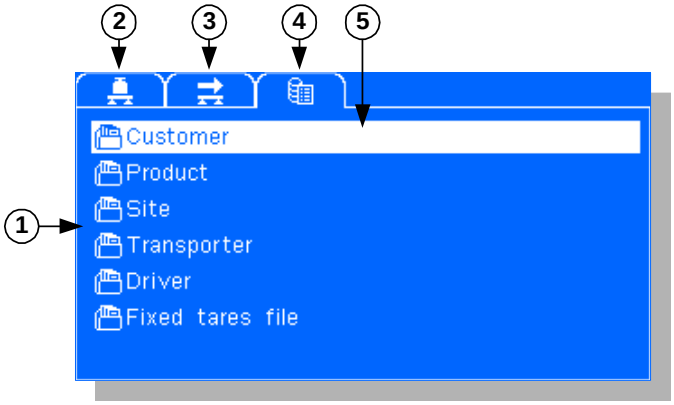


Legend:

- 1 ⇒ List of the input weights.
- 2 ⇒ The previous window.
- 3 ⇒ The window in progress.
- 4 ⇒ The next window.
- 5 ⇒ Actually pointed input weight.
- 6 ⇒ Seizure zone of the input weighing identifier.

In this second window you have the list of the executed input weights. You may start an output weighing by pressing on the enter key once the required input weight is pointed. To point the required input weight, you must use the up arrow and left arrow keys or you must seize the identifier of the required input weight.

2.3. : Fast access to the files



Legend:

- 1 ⇒ Available files in fast access.
- 2 ⇒ The next window.
- 3 ⇒ The previous window.
- 4 ⇒ The window in progress.
- 5 ⇒ Fast access to the actually pointed file.

In this third window you have the list of the fast access of the available files. You may access to the file by pressing on the enter key once the fast access to the required file is pointed. To point a fast access to a required file you must use the up arrow and left arrow keys.

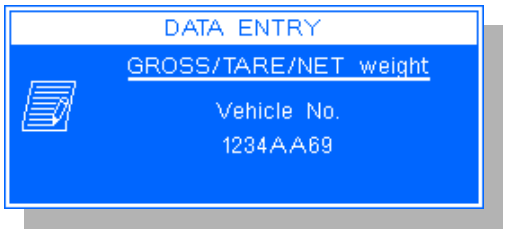
Remarks:

- This is a "dynamic" list, according to the configuration of the application, it is possible that some files accesses will not be available.
- Once the fast access to the required file is validated, a "Pop-up" window requiring a key code will be displayed. The key code "**2110**" allows a full access to the file, if you enter a wrong key code, only the visualization of the file will be authorized.

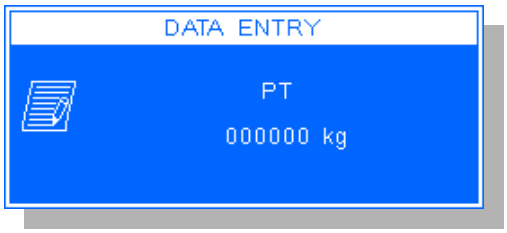
2.4. Seizure of the files and the simple data in weighing mode

2.4.1. Seizure operations

Once the weighing is launched, one of these two, or both, "Pop-up" windows will be displayed:

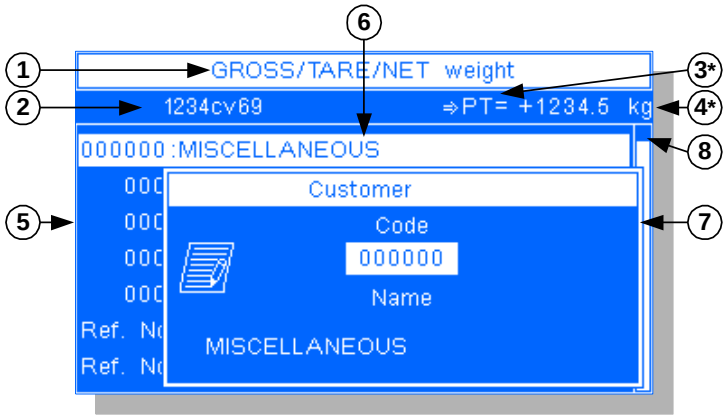


The weighing type is underlined in the "Pop-up", Enter the vehicle code or the tare file code.



Enter the tare value. (PT)

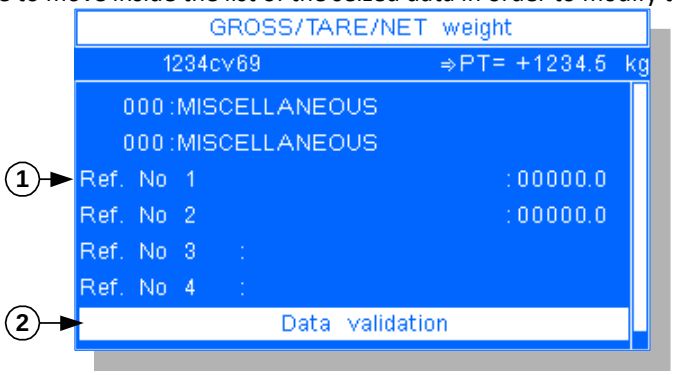
Once the chosen code is validated, the system asks for the seizure of the validated files and simple data and the following window will be displayed:



Legend:

- 1 ⇒ Type of the weighing in progress.
- 2 ⇒ Identifier label of the displayed weight.
- 3 ⇒ Tare type, according to the type you will have "**T**" for a classic tare or "**PT**" for a manual tare.
- 4 ⇒ Tare value of the weight in progress.
- 5 ⇒ List of the data to be seized.
- 6 ⇒ Pointer, in this example, it points the first data to be seized. (Seizure of the file N°1)
- 7 ⇒ Data seizure "Pop-up" window. (Seizure of the file N°1)
- 8 ⇒ Cursor indicating the position inside the list of data to be seized.
- * ⇒ Filed displayed only if the tare value is different from zero.

Once the various validated data are seized, the cursor points the general validation of the data as indicated below, so it is possible to move inside the list of the seized data in order to modify them.



Legend:

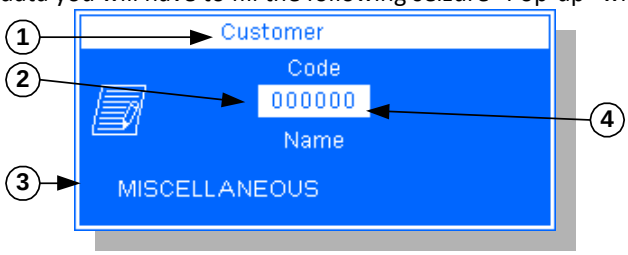
- 1 ⇒ List of the data to be seized.
- 2 ⇒ Cursor pointing the general validation of the seized data.

Use of the keyboard:

- The key allows accessing to the seizure of the pointed line. (Validates the weight and the data set if the pointed line was the line of the general validation of the seized data)
- The key allows accessing to the previous line in the list of the data to be seized.
- The key allows accessing to the previous line in the list of the data to be seized.
- The key allows accessing to the first line in the list of the data to be seized. (Corresponds to the first data to be seized)
- The key allows accessing to the last line in the list of the data to be seized. (Corresponds to the general validation of the seized data)
- The key allows cancelling the weighing and returning to the weighing menu.

2.4.2. Seizure of a file data

During the seizure of a file data you will have to fill the following seizure "Pop-up" window.



Legend:

- 1 ⇒ Name of the file concerned by the seizure in progress.
- 2 ⇒ File code.
- 3 ⇒ File label.
- 4 ⇒ Pointer indicating the seizure in progress.

Use of the keyboard:

- The key allows validating the seizure code, if the code is void, then you may enter a different label than the one set by default ("**Miscellaneous**") and then press again on this key to go to the next data.
- The keys and allow passing from the code to the label if this was authorized.
- The key allows the re-initializing the seizure in progress.

- The key Scroll Lock, during the code seizure, allows a fast access to the file. (See below)
- The key ESC allows cancelling the weighing and returning to the weighing menu.

The files are seized by their codes due to the numeric pad. As soon as you type an existing code, the label is updated.
It is also possible to seize the files due to the label (only if the label exists), for this you must type the first letter of the label in the code seizure and you will access to the file as indicated here below.

Legend:

- 1 ⇒ Type of the weighing in progress.
- 2 ⇒ Name of the file concerned by the seizure in progress.
- 3 ⇒ Header of the file.
- 4 ⇒ Lines of the file.
- 5 ⇒ Cursor indicating the position inside the file.
- 6 ⇒ Pointer, in this example it points the first line for which the label starts by the seizure letter.
- 7 ⇒ Seizure zone of the label to be searched. (With the tabulated letter to pass in this searching mode)

Remark: The software makes a distinction between the upper-case and the lower-case letters, in the example above, if none of the labels starts with the lower-case letter “c” and if you seize “c” so the pointer will stay on the first line of the file.

Use of the keyboard:

- The key ↵ allows selecting the pointed line and returning to the seizure "Pop-up" window.
- The key ↑ allows accessing to the previous line of the file.
- The key ↓ allows accessing to the next line of the file.
- The key Page Up allows accessing to the 8th previous line of the file.
- The key Page Down allows accessing to the 8th next line of the file.
- The key Home allows accessing to the first line of the file. (Display of the 8 first lines)
- The key End allows accessing to the last line of the file. (Display of the 8 last lines)
- The key F4 allows changing the searching field in the file.
- The key ESC allows quitting his searching mode and returning to the seizure "Pop-up" window.

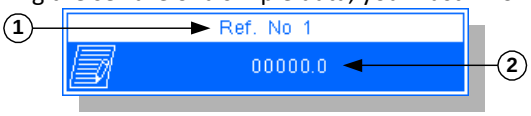
The first line for which the label starts by the seized letter is pointed, either you continue the seizure of the label until obtaining the required one or you move inside the file.
Once the required line is found, you may select it and return to the seizure "Pop-up" window

If the file memorization option is enabled, it is possible to create a new record. For this you must type and validate a none-existing code in the file, then seize its label and validate. If the creation took place properly, an audible « beep » is emitted. If on the contrary, the file memorization option is disabled, then the system remains waiting for the seizure of an existing code in the file.

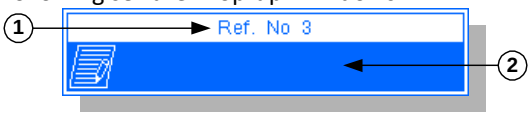
Remark: If you use the code "**0**" for one of the files, the corresponding label is "**Miscellaneous**". It is possible to modify this label for a weight but it will not be saved in the file. This allows the printing of an occasional label that does not require a creation of a record.

2.4.3. Seizure of a simple data

During the seizure of a simple data, you must fill one of the following seizure "Pop-up" windows.



Case of a digital simple data.



Case of an alphanumeric simple data.

Legend:

- 1 ⇒ Name of the simple data concerned by the seizure in progress.
- 2 ⇒ Value of the simple data.

Use of the keyboard:

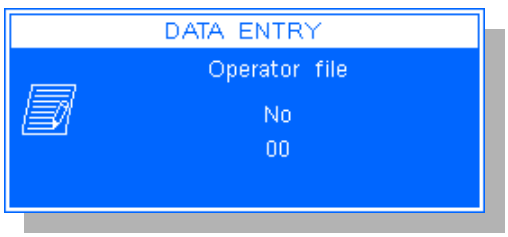
- The key  allows going to the next data.
- The key  allows re-initializing the data in progress.
- The key  cancelling the weighing and returning to the "**Weighing menu**".

2.5. Management of the operator session

In case where the operator file contains at least an operator declared as an operator type and an operator declared as an administrator type, the management of the session is enabled (For the management of the operator file refer to "*3.4.9. Operator file.*") and the icon  followed by the operator's code having its session opened are displayed in the "**Weighing menu**".
To disable the session management you must erase the operator file or modify it in order to have only administrator type or only operator type operators.

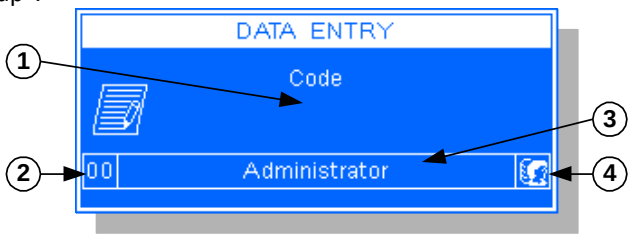
If no session is opened, the operator code displayed in the "**Weighing menu**" will be replaced by dashes (), then it will not be possible to execute any weighing.

To open a session, you must press on the keys  and  . The following seizure "Pop-up" will be displayed:



You must enter the operator code with which you want to open a new session (example "00") and then validate.

If the entered code exists in the file, the indicator will display the following seizure "Pop-up", if not it will display the previous "Pop-up".



Legend:

- 1 ⇒ Code seizure zone for the opening of a session.
- 2 ⇒ Operator code.
- 3 ⇒ Operator name.
- 4 ⇒ Operator type. (Administrator type shown in the example:)

Enter the code for the opening of an operator session and validate.
If the entered code is incorrect an error message will be displayed in a "Pop-up", if not you will return to the "**Weighing Menu**" where you will find the operator code who has opened the session: :00 . Then it will be allowed to execute the weighing and the operator code will be assigned to these weights.

To close a session you must press on the keys Alt Gr and F9. A confirmation "Pop-up" will be displayed, Choose if yes or no you want to close the session in progress. (By default the choice is no)
The shutdown of the session is then executed and you will return to the "**Weighing menu**" where the operator code is replaced by dashes: :-- .

2.6. Printing example of a standard ticket

Example of a ticket that does not contain any validated data:

1st line of the company name ⇒
2nd line of the company name ⇒
3rd line of the company name ⇒
4th line of the company name ⇒
Date/time of the first weighing. ⇒
DSD number of the weighing ⇒
Input/Output identifier and its assigned label. ⇒
GROSS Weight. ⇒
TARE Value. ⇒
NET Weight. ⇒
1sr line of the end of ticket. ⇒
2nd line of the end of ticket. ⇒

```
      ARPEGE MASTER-K
 38 avenue des Freres Montgolfier
BP 186
69 686 CHASSIEU Cedex

 Date    : 2008/12/19 Time    : 10:01:52
 Date    : 2008/12/22 Time    : 17:21:04
 Weighing number      : 000025-IO
 DSD Number           : 000004

Vehicle No      :1234AA69

Gross     :   15420 kg
Tare      :   10060 kg
Net       :    5360 kg

Comments :
Signature:
```

⇐ Date/time of the weighing.
⇐ Weighing number and type: I = Input weighing, IO = Input / Output weighing, TF = Tare file weighing, TM = Gross/Tare/Net weighing.

Example of a ticket that contains all the validated data:

1st line of the company name ⇒
2nd line of the company name ⇒
3rd line of the company name ⇒
4th line of the company name ⇒
Date/time of the first weighing. ⇒
Code et name of the operator who made the weighing. ⇒
DSD number of the weighing ⇒
Input/Output identifier and its assigned label. ⇒
Name of the file 1 with its assigned code and label. ⇒
Name of the file 3 with its assigned code and label. ⇒
Name of the file 5 with its assigned code and label. ⇒
Name of the simple data n°2 and its assigned data. ⇒
Name of the simple data n°4 and its assigned data. ⇒
GROSS Weight. ⇒
TARE Value. ⇒
NET Weight. ⇒
1sr line of the end of ticket. ⇒
2nd line of the end of ticket. ⇒

```
      ARPEGE MASTER-K
 38 avenue des Freres Montgolfier
BP 186
69 686 CHASSIEU Cedex

 Date    : 2008/12/19 Time    : 10:01:52
 Date    : 2008/12/22 Time    : 17:21:04
 Operator           : 00 Administrator
 Weighing number    : 000025-IO
 DSD Number         : 000004

Vehicle No       : 1234AA69
 Customer         :000000 MISCELLANEOUS
 Product          :   001 PRODUCT 00000000
 Site             :   002 SITE    00000000
 Transporter      :   003 TRANSPORTER 000
 Driver           :   004 DRIVER 000000
 Ref. No 1        :0054.15
 Ref. No 2        :479.874
 Ref. No 3        :AAAAAAAAAAAAAAAA
 Ref. No 4        :WWWWWWWWWWWWWWWW

Gross     :   15420 kg
Tare      :   10060 kg
Net       :    5360 kg

 Comments :
 Signature:
```

⇐ Date/time of the weighing.
⇐ Weighing number and type: I = Input weighing, IO = Input / Output weighing, TF = Tare file weighing, TM = Gross/Tare/Net weighing.
⇐ Name of the file 2 with its assigned code and label.
⇐ Name of the file 4 with its assigned code and label.
⇐ Name of the simple data n°1 and its assigned data.
⇐ Name of the simple data n°3 and its assigned data.

Remark: In the 40 columns printing mode, the labels of the files are cut down to 16 characters.

3. MANAGEMENT MENU

To access the "**Management menu**" of the indicator, please refer to the paragraph *2.1.9.*, you will get the following menus:

You may access to the required function by pressing on the enter key once this function is pointed. To point the function, you must use the up arrow and down arrow keys and to return to the upper level, you must press on the escape key.

3.1. Weighing N° / Date / Time

To access to the 'weighing number / date format /date / time' parameters, you must validate the "**WEIGHING N°/ DATE / TIME**" function in the "**Management menu**", and you will get the following parameters to be filled.

Weighing Number ⇒ **000001**
Weighing number on 6 digits.

Date format ⇒ **AAAAA/MM/JJ (ISO8601)**
Choose the date format:
- ✓ **AAAAA/MM/JJ (ISO 8601)** : Date with the format Year/Month/Day (ISO 8601 standard), this will give 2009/01/05 for the 5th of January 2009.
- ✓ **JJ/MM/AAAAA** : Date with the format Day/Month/Year, this will give 05/01/2009 for the 5th of January 2009.

Date ⇒ **2009/01/05**
Date on 8 digits with separators, enter the required date for example for the 5th of January 2009 and with the date format selected above, you must enter 2, 0, 0, 9, 0, 1, 0, 5.

Remark: There is no cursor during this seizure, the seizure is re-initialized when you press on the key Delete or when you enter more than 8 digits.

Time ⇒ **10:45:00**
Time on 6 digits with separators, enter the required time for example for 10 h 45 min 00 s, you must enter 1, 0, 4, 5, 0, 0.

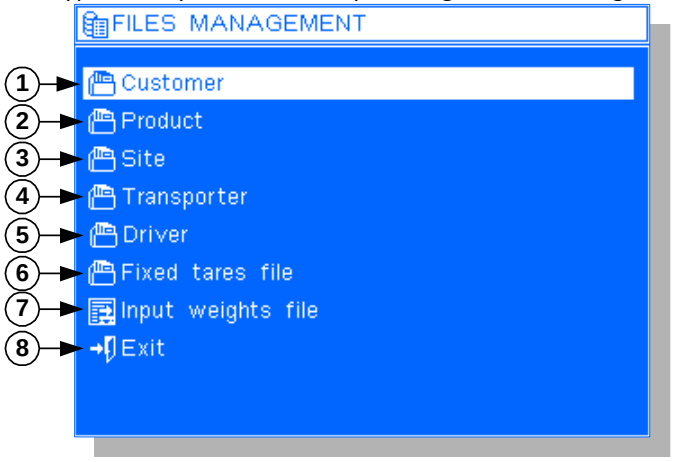
Remark: There is no cursor during this seizure, the seizure is re-initialized when you press on the key Delete or when you enter more than 6 digits. The seizure of the seconds is not necessary because the clock update will be done with the seconds at a zero value.

By validating the latest data you will return to the "**Management menu**" and the update of the date and time will be executed.

By pressing on the key ESC you will return to the "**Management menu**" without executing the update of the date and time.

3.2. Files management

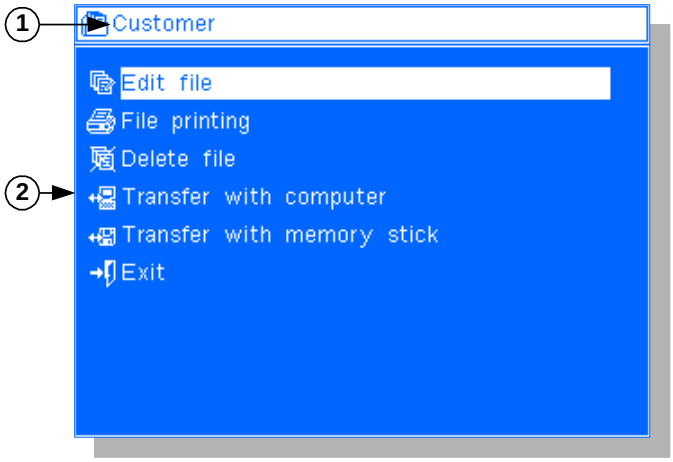
To access to the files management, you must validate the "**Files management**" function in the "**Management menu**" then type the key code "**2110**", you will get the following menu:



Legend:
- 1 ⇒ Access to the file 1 management. ("**Customer**")
- 2 ⇒ Access to the file 2 management. ("**Product**")
- 3 ⇒ Access to the file 3 management. ("**Site**")
- 4 ⇒ Access to the file 4 management. ("**Transporter**")
- 5 ⇒ Access to the file 5 management. ("**Driver**")
- 6 ⇒ Access to the fixed tares file management.
- 7 ⇒ Access to the input weights file management.
- 8 ⇒ Return to the "**Management menu**".

In this menu, you have the list of the available files. You may access to the file by pressing on the enter key once the access to the required file management is pointed. To point the access to the required file management, you must use the up arrow and down arrow keys.

3.2.1. Management of the files 1 to 5 and of the fixed tares file



*(Example with the file 1, name by default: "**Customer**")*

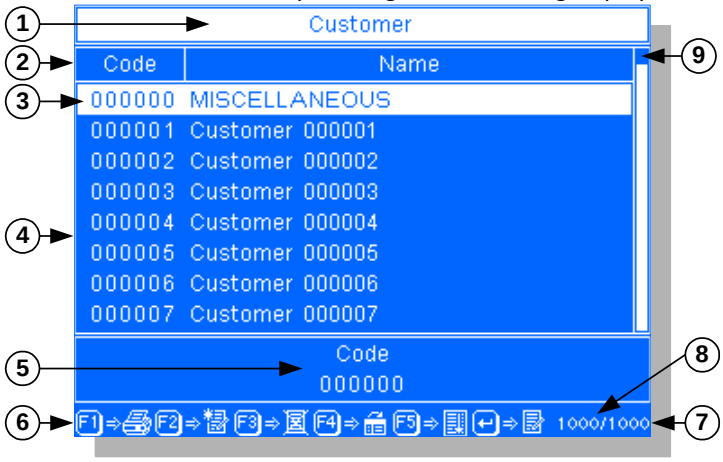
Legend:

- 1 ⇒ Name of the file management in progress.
- 2 ⇒ List of the available functions.

In this menu, you have the list of the available functions. You launch the functions by pressing on the enter key once the function is pointed, to point it you must use the up arrow and down arrow keys.

3.2.1.1. Edit file

When you launch an "**Edit file**" function, you will get the following display.



*(Example with the file 1, Name by default: "**Customer**")*

Legend:

- 1 ⇒ Name of the file under edition.
- 2 ⇒ Header of the file.
- 3 ⇒ Pointer, in this example it points the first line of the file.
- 4 ⇒ Lines of the file with its various fields.
- 5 ⇒ Seizure zone for the searching inside the file.
- 6 ⇒ List of the various available functions.
- 7 ⇒ Maximum number of possible records inside the file.
- 8 ⇒ Number of records actually in the file.
- 9 ⇒ Cursor indicating the position in the file.

The code "**0**" with the label "**Miscellaneous**" is created by default in the files 1 to 5. This record is not modifiable in the file but the label may be changed during a weighing. This allows the printing of an occasional label that does not require a creation of a record.

To access to a record, you must type its code on 6 digits for the file 1, on 3 digits for the files 2 to 5, or on 10 characters for the fixed tares file. After validation, a seizure "Pop-up" window will be displayed allowing the seizure of the various fields corresponding to the entered code.
However it is possible to access to a record otherwise than by its code by changing the searching field inside the file, like this you may reach a record through any of its fields.

Use of the keyboard:

- The key ↵ allows modifying the pointed line, a seizure "Pop-up" window will be displayed.
- The key ↑ allows accessing to the previous line of the file.
- The key ↓ allows accessing to the previous line of the file.
- The key Page Up allows accessing to the 8th previous line of the file.
- The key Page Down allows accessing to the 8th next line of the file.
- The key Home allows accessing to the first line of the file. (Display of the first 8 lines)
- The key End allows accessing to the last line of the file. (Display of the last 8 lines)
- The key F1 allows printing the pointed line.
- The key F2 allows creating a new line in the file.
- The key F3 allows deleting the pointed line from the file.
- The key F4 allows changing the searching filed in the file.
- The key F5 allows sorting the content of the file according to the searching field in the file.
- The key ESC allows quitting the edition mode and returning to the file management menu.

3.2.1.1.1. Printing of a line: F1

Press on the key F1, the printing of the pointed line will be launched. A "Pop-up" window will be displayed during this operation.

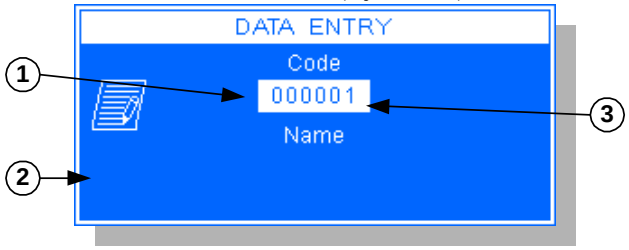
3.2.1.1.2. Creation of a line: F2

Press on the key F2 and a file seizure "Pop-up" window appears unless if the file is full, in this case an error "Pop-up" window will be displayed.
Fill the various fields and once the latest one is validated, the line will be added to the file.

Use of the keyboard:

- The key ↵ allows validating the seizure in progress and passing to the next seizure.
- The keys ↑ and ↓ allow passing from one filed to another.
- The key Delete allows re-initializing the seizure in progress.
- The key ESC allows cancelling the creation in progress.

Example of a seizure "Pop-up" of the file 1: "**Customer**" (By default)

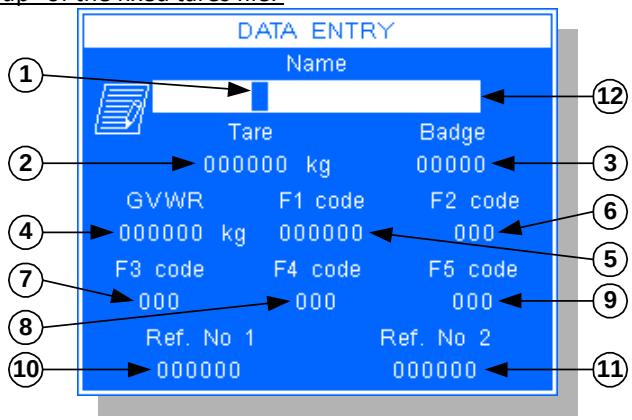


Legend:

- 1 ⇒ Field 1: Code of the file. (By default, the code corresponds to the next available code).
- 2 ⇒ Field 2: Label of the file. (21 characters)
- 3 ⇒ Pointer indicating the seizure in progress.

Remark: The seizure "Pop-ups" of the files 1 to 5 is almost the same.

Example of a seizure "Pop-up" of the fixed tares file:



Legend:

- 1 ⇒ Field 1: Identifier of the vehicle. (10 characters)
- 2 ⇒ Field 2: Value of the fixed tare of the vehicle.
- 3 ⇒ Field 3: Badge code to be assigned to the vehicle.
- 4 ⇒ Field 4: Value of the GVWR of the vehicle. (**G**ross **V**ehicle **W**eight **R**ating)
- 5 ⇒ Field 5: Code of the file 1 to be assigned to the vehicle.
- 6 ⇒ Field 6: Code of the file 2 to be assigned to the vehicle.
- 7 ⇒ Field 7: Code of the file 3 to be assigned to the vehicle.
- 8 ⇒ Field 8: Code of the file 4 to be assigned to the vehicle.
- 9 ⇒ Field 9: Code of the file 5 to be assigned to the vehicle.
- 10 ⇒ Field 10: value of the simple data n°1 to be assigned to the vehicle.
- 11 ⇒ Field 11: value of the simple data n°2 to be assigned to the vehicle.
- 12 ⇒ Pointer indicating the seizure in progress.

3.2.1.1.3. Deleting of a line: F3

Press on the key F3 and a confirmation "Pop-up" will be displayed, choose if yes or no you want to delete the pointed line. (By default the choice is No)
Then the deleting will be executed.

3.2.1.1.4. Choice of the searching field in the file: F4

Press on the key F4 and the seizure zone for the searching in the file passes to the next field.

3.2.1.1.5. Sorting of the file: F5

Press on the key F5 and the content of the file will be sorted in an ascending order according to the searching field in progress.

3.2.1.1.6. Modification of the pointed line:

Press on the key and a file seizure "Pop-up" will appear with the information of the pointed line.
Modify the various fields and once the latest field is validated, the line will be recorded in the file.

Use of the keyboard:

- The key allows validating the seizure in progress and passing to the next seizure.
- The keys and allow passing from one field to another.
- The key Delete allows re-initializing the seizure in progress.
- The key ESC allows cancelling the creation in progress.

3.2.1.2. File printing

Launch the function "**File printing**". The file printing will be started. A "Pop-up" will be displayed during this operation.
Once the printing is finished, you will return to the file management.

Example of the printing of the file 1: "**Customer**" (By default)

```
----------------------------------------
   Customer

Date    : 2009/01/05  Time    : 15:46:38
----------------------------------------
|  Code  |             Name             |
----------------------------------------
| 000000 | Miscellaneous                |
| 000001 | Customer 00000000000001      |
| 000002 | Customer 00000000000002      |
```

The first field corresponds to the "**Code**" of the customer and the second field corresponds to the "**Name**" of the customer.

Example of the printing of the file 1: "**Product**" (By default)

```
----------------------------------------
   Product

Date    : 2009/01/05  Time    : 15:49:34
----------------------------------------
|  Code  |             Name             |
----------------------------------------
|    000 | Miscellaneous                |
|    001 | Product 0000000000001        |
|    002 | Product 0000000000002        |
```

The first field corresponds to the "**Code**" of the product and the second field corresponds to the "**Name**" of the product.

Example of the printing of the Fixed Tares file:

```
----------------------------------------
Fixed tares file

Date    : 2009/01/05  Time    : 15:56:06
----------------------------------------
|Vehicle No  |   Tare     |   GVWR     |
|   Badge    |  Code F1   |  Code F2   |
|  Code F3   |  Code F4   |  Code F5   |
| Ref. No 1        | Ref. No 2         |
----------------------------------------
|  1234AA69    |  001250 kg|  007800 kg|
|      00000 |     000000 |        001 |
|        006 |        012 |        019 |
|           000001 |            000002 |
|----------------------------------------|
```

The first field corresponds to the "**Vehicle No**" of the fixed tare, the second field corresponds to the value of its "**Tare**", the third field corresponds to the value of its "**GVWR**", the fourth filed corresponds to the "**Badge**" code, the fifth filed corresponds to the call code of the "**Customer**" appointed, the sixth corresponds to the call code of the "**Product**" appointed, the seventh field corresponds to the call code of the "**Site**" appointed, the eighth field corresponds to the call code of the "**Transporter**" appointed, the ninth field corresponds to the call code of the "**Driver**" appointed, the tenth field corresponds to the value of the simple data n°1 "**Ref. No 1**" appointed, the eleventh field corresponds to the value of the simple data n°2 "**Ref. No 2**" appointed.

3.2.1.3. Delete of a file

Lunch the function "**Delete file**" and a confirmation "Pop-up" will be displayed, choose if yes or no you want to delete the file. (By default the choice is No)
Then the file deleting will be executed. A "Pop-up" will be displayed during this operation.

3.2.1.4. Transfer of the file with a computer

This function allows either sending the saved file from the indicator toward a computer ("**Saving**") or recuperating the file from the computer ("**Uploading**") to save it on the indicator.
These transfers may be done through one of the following ports: COM1, COM2 or USB. (Subject to their availability)

Remark: The transferred file is a text file with separators by tabulation (.TXT), it is directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data.
(Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

3.2.1.4.1. Saving of the file on a computer

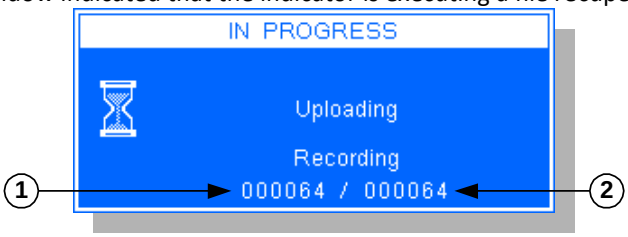
For this you must proceed as indicated below. *(Example of a transfer on the port COM1 of the indicator with COM1 of the computer)*
Connect the computer (on Com1) with the IDL (on Com1) and start the Hyper terminal software. (Path of hyperterm.exe: **"C:\ProgramFiles\Accessories\HyperTerminal\HYPERTRM.EXE"**)
Name the connection and validate (TERMINAL.IDL)
Then in the header "Connect using" you must validate "Send to Com1" then configure the connection in 9600 Bauds, no parity, one stop bit, and no flow control.
Always under HyperTerminal, you must go to "Transfer" then "Capture the text", define the name of the file to be saved and validate with "Start".
The PC is now ready to communicate with the indicator. Launch the function "**Transfer with computer**".
Once this function is validated, a seizure "Pop-up" window will be displayed, choose the communication port to be used for the transfer and validate.
A transfer confirmation "Pop-up" window will be displayed in which you may choose to cancel the transfer, execute the saving of the file or execute a file recuperation, choose the execution of a file saving and validate.

The saving is started. A "Pop-up" window with a bar graph will be displayed during the operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the file management.
Once the transfer is finished, you must close the capture. For this you must go to "Transfer" then "Capture the text" and "Stop".

3.2.1.4.2. Recuperation of a file through a computer.

For this you must proceed as indicated below. *(Example of a transfer on the port COM1 of the indicator with COM1 of the computer)*
Connect the computer (on Com1) with the IDL (on Com1) and start the Hyper terminal software. (Path of hyperterm.exe: **"C:\ProgramFiles\Accessories\HyperTerminal\HYPERTRM.EXE"**)
Name the connection and validate (TERMINAL.IDL)
Then in the header "Connect using" you must validate "Send to Com1" then configure the connection in 9600 Bauds, no parity, one stop bit, and no flow control.
The PC is now ready to communicate with the indicator. Launch the function "**Transfer with computer**".
Once this function is validated, a seizure "Pop-up" window will be displayed, choose the communication port to be used for the transfer and validate.
A transfer confirmation "Pop-up" window will be displayed in which you may choose to cancel the transfer, execute the saving of the file or execute a file recuperation, choose the execution of a file recuperation and validate.
A "Pop-up" window indicates that the indicator is waiting for the file recuperation.
Under HyperTerminal, you must go to "Transfer" then "Send the text file", define the text to be loaded and validate with "Open".

The following "Pop-up" window indicated that the indicator is executing a file recuperation.



Legend:

- 1 ⇒ Number of records received.
- 2 ⇒ Number of records added to the file.

Once the recuperation is finished a "Pop-up" window will be displayed and you will return to the file management.

3.2.1.5. Transfer of a file with the memory extension (USB memory stick)

This function allows either sending the saved file from the indicator toward the memory extension ("**Saving**") either to recuperating the file from the memory extension ("**Uploading**") to save it on the indicator.

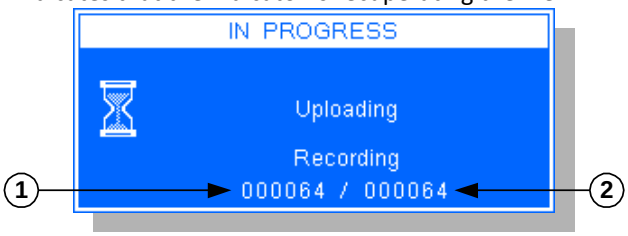
Remark: The transferred file is a text file with separators by tabulation "FILE__*xx*.TXT" (The "*xx*" correspond to the file number) or "TARE____.TXT", it is directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

3.2.1.5.1. Saving of the file on the memory extension

For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Transfer with memory stick**".
Once this function is validated, a transfer confirmation "Pop-up" window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of a file or execute a file recuperation, choose the execution of the file saving and validate.
The saving is started. A "Pop-up" window with a bar graph will be displayed during the operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the file management.

3.2.1.5.2. Recuperation of a file through the memory extension

For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Transfer with memory stick** ".
Once this function is validated, a transfer confirmation "Pop-up" window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of a file or execute a file recuperation, choose the execution of the file recuperation and validate.
A "Pop-up" window indicates for a few seconds that the indicator is waiting for the file recuperation then the following "Pop-up" window indicates that the indicator is recuperating the file.



Legend:

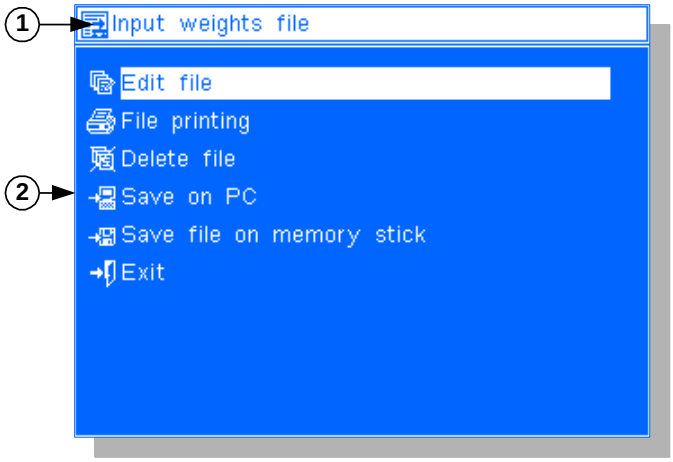
- 1 ⇒ Number of records received.
- 2 ⇒ Number of records added to the file.

Once the recuperation is finished a "Pop-up" window will be displayed and you will return to the file management.

3.2.1.6. Return to the "Files management"

Lunch the function "**Exit**" or press on the key ESC and you will return to the "**Files management**" menu.

3.2.2. File management of the input weights



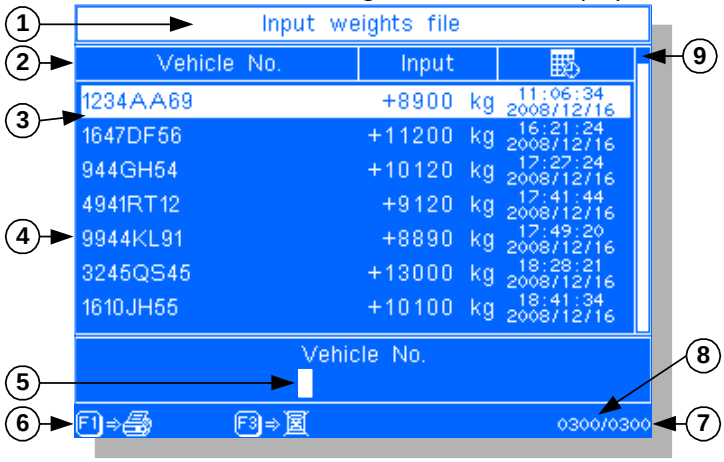
Legend:

- 1 ⇒ Name of the file under management.
- 2 ⇒ List of the available functions.

You have the list of the available functions in this menu. You may start a function by pressing on the enter key once this function is pointed. To point a function you must use the Up arrow and Down arrow keys.

3.2.2.1. File edition

Launch the function "**Edit file**" and the following window will be displayed.



Legend:

- 1 ⇒ Name of the file under edition.
- 2 ⇒ Header of the file.
- 3 ⇒ Pointer, in this example it points the first line of the file.
- 4 ⇒ Lines of the file with its various fields.
- 5 ⇒ Seizure zone for the searching inside the file.
- 6 ⇒ List of the various available functions.
- 7 ⇒ Maximum number of records possible in the file.
- 8 ⇒ Actual number of records in the file.
- 9 ⇒ Cursor indicating the position in the file.

To access to a record, you must type its code on 10 characters. After validation, the pointer will be positioned directly on the line corresponding to the typed code.

Use of the keyboard:

- The key ↑ allows accessing to the previous line of the file.
- The key ↓ allows accessing to the next line of the file.
- The key Page Up allows accessing to the 8th previous line of the file.
- The key Page Down allows accessing to the 8th next line of the file.
- The key Home allows accessing to the first line of the file. (Display of the 8 first lines)
- The key End allows accessing to the last line of the file. (Display of the 8 last lines)
- The key F1 allows printing the pointed line.
- The key F3 allows deleting the pointed line from the file.
- The key ESC allows quitting the edition mode and returning to the file management menu.

3.2.2.1.1. Printing of a line: F1

Press on the key F1, the printing of the pointed line will be launched. A "Pop-up" window will be displayed during the operation.

3.2.2.1.2. Line deleting: F3

Press on the key F3 and a confirmation "Pop-up" window will be displayed, choose if yes or no you want to delete the pointed line. (By default the choice is no)
Then the line deleting will be executed.

3.2.2.2. File printing

Launch the function "**File printing**". The file printing will be started. A "Pop-up" window will be displayed during this operation.
Once the printing is finished, you will return to the file management menu.

Example of a printing:

```
----------------------------------------
  Input weights file

Date    : 2009/01/05  Time    : 17:33:06
----------------------------------------
|  Vehicle No        |      Input      |
|       Date         |      Time       |
----------------------------------------
|9887NB69            |      3018 kg    |
|     2009/01/05     |     10:30:02    |
|------------------------------------|
```

Remark: In the 40 columns printing mode, the file label is cut down to 20 characters.

The first field corresponds to the "**Vehicle No**" of the fixed tare, the second filed corresponds to the value of the "**Input**" weight, the third field corresponds to the "**Date**" of the weight, the fourth filed corresponds to the "**Time**" of the weight.

3.2.2.3. File deleting

Launch the function "**Delete file**" and a confirmation "Pop-up" window will be displayed, choose if yes or no you want to delete the file. (By default the choice is no)
The file deleting will be executed. A "Pop-up" window will be displayed during this operation.

3.2.2.4. File saving on a computer

This function allows sending the recorded file from the indicator toward a computer.
These transfers may be done through the following ports: COM1, COM2 or USB. (Subject to their availability)
Remark: The transferred file is a text file with separators by tabulation (.TXT), it is directly exploited by a spreadsheet. (Ex: EXCEL), Pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

For this you must proceed as indicated below. *(Example of a transfer on the port COM1 of the indicator with COM1 of the computer)*

Connect the computer (on Com1) with the IDL (on Com1) and start the Hyper terminal software. (Path of hyperterm.exe: **"C:\ProgramFiles\Accessories\HyperTerminal\HYPERTRM.EXE"**)
Name the connection and validate (TERMINAL.IDL)
Then in the header "Connect using" you must validate "Send to Com1" then configure the connection in 9600 Bauds, no parity, one stop bit, and no flow control.
Always under HyperTerminal, you must go to "Transfer" then "Capture the text", define the name of the file to be saved and validate with "Start".
The PC is now ready to communicate with the indicator. Launch the function "**Save on PC**".
Once this function is validated, a seizure "Pop-up" window will be displayed, choose the communication port to be used for the transfer and validate.
A confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the saving. (By default the choice is no).
The saving is launched. A "Pop-up" window with a bar graph will be displayed during the operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the file management menu.
Once the transfer is finished, you must close the capture. For this you must go to "Transfer" then "Capture the text" and "Stop".

3.2.2.5. File transfer with a memory extension (USB memory stick)

This function allows sending the recorded file from the indicator toward the memory extension.
Remark: The transferred file is a text file with separators by tabulation "INPUT___.TXT", it is directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

For this you must proceed as indicated below.

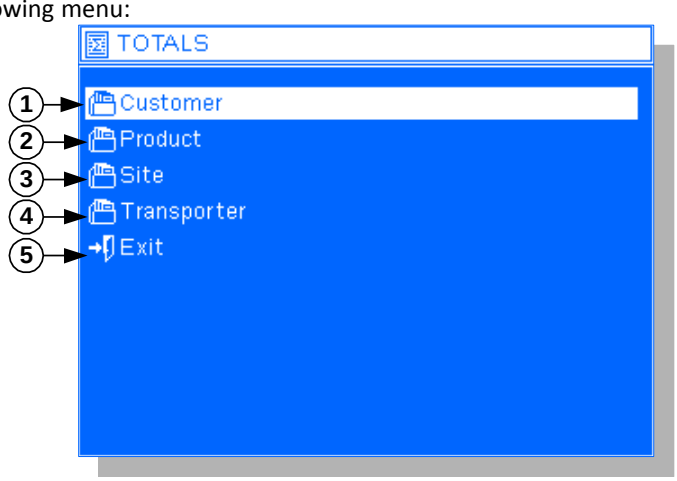
Get sure that the memory extension is connected properly.
Launch the function "**Save file on memory stick**".
Once this function is validated, a confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the saving. (By default the choice is no).
The saving is started. A "Pop-up" window with a bar graph will be displayed during the operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the file management menu.

3.2.2.6. Return to the "Files Management" menu

Launch the function "Exit" or press on the key ESC and you will return to the "**Files management**" menu.

3.3. Totals

To access to the totals of the files, you must validate the function "**Totals**" in the "**Management menu**" and you will get the following menu:



Legend:

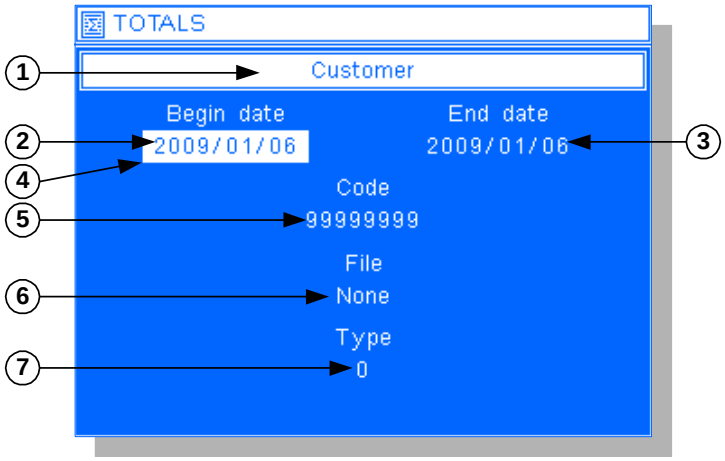
- 1 ⇒ Access to the totals of the file 1. ("**Customer**")
- 2 ⇒ Access to the totals of the file 2. ("**Product**")
- 3 ⇒ Access to the totals of the file 3. ("**Site**")
- 4 ⇒ Access to the totals of the file 4. ("**Transporter**")
- 5 ⇒ Return to the "**Management menu**".

In this menu, you have the list of the totals of the available files. You may access to the totals by pressing on the enter key once the access the totals of the required file is pointed. To point the access to the totals of the required file, you must use the up arrow and down arrow keys.

Remarks:

- The totals are only executed on the last 16 300 weights.
- If the totals require a lot of memory resources, they will be executed in several blocks.

Launch the totals of the required file (example: totals on the file 1 "**Customer**"), you will get the totals parameters to be filled as indicated below.



*(Example with the file 1, name by default: "**Customer**")*

Legend:
- 1 ⇒ Name of the totals file.
- 2 ⇒ Beginning date of the totals.
- 3 ⇒ End date of the totals.
- 4 ⇒ Pointer of the data under seizure.
- 5 ⇒ Code of the file with which you totalize.
- 6 ⇒ File for the crossed totals.
- 7 ⇒ Type of the totals.

Beginning date ⇒ **2009/01/06**
Enter the beginning date of the totals on 8 digits with separators, for the 1st of January 2009 and for the selected date format above, you must enter 2, 0, 0, 9, 0, 1, 0, 1.

End date ⇒ **2009/01/06**
Enter the end date of the totals on 8 digits with separators, for the 6th of January 2009 and for the selected date format above, you must enter 2, 0, 0, 9, 0, 1, 0, 6.

Code ⇒ **99999999**
Choose the code of the file on which the totals will be done. With the code "**99999999**" the totals will be done for all the codes of the totals file.

File ⇒ **None**
Choose the file with which the totals will be done. (Crossed Totals)
- ✓ **None** : Simple totals.
- ✓ **Customer** : Crossed totals with the file 1, name by default "**Customer**".
- ✓ **Product** : Crossed totals with the file 2, name by default "**Product**".
- ✓ **Site** : Crossed totals with the file 3, name by default "**Site**".
- ✓ **Transporter** : Crossed totals with the file 4, name by default "**Transporter**".

Remark: If the totals file is identical to the crossed totals file, as selected above, the executed totals will be a simple totals.

Type ⇒ **0**
Choose the type of totals to be done.
- ✓ **0** : Totals without detail.
- ✓ **1** : Totals with the detail of all the weights concerned by the totals.

By validating the last data, the required total is launched. Before the starting of the total, it is possible to cancel the seizure in progress by pressing on the key 

and you will return to the "**Management menu**".

According to the complexity of the required total, the "Pop-up" of the totals in progress and the printings in progress will follow each other and this may last for several minutes.

Printing example of a simple total on the file 1:

```
----------------------------------------
          TOTALS
 Date   : 2009/01/06  Time  : 20:01:11
----------------------------------------
Customer
2009/01/06 .. 2009/01/06
----------------------------------------
|  000000|Miscellaneous |       1220 kg|
----------------------------------------
|  000010|Customer 10   |      14200 kg|
----------------------------------------
|   Total               =      15420 kg|
----------------------------------------
```

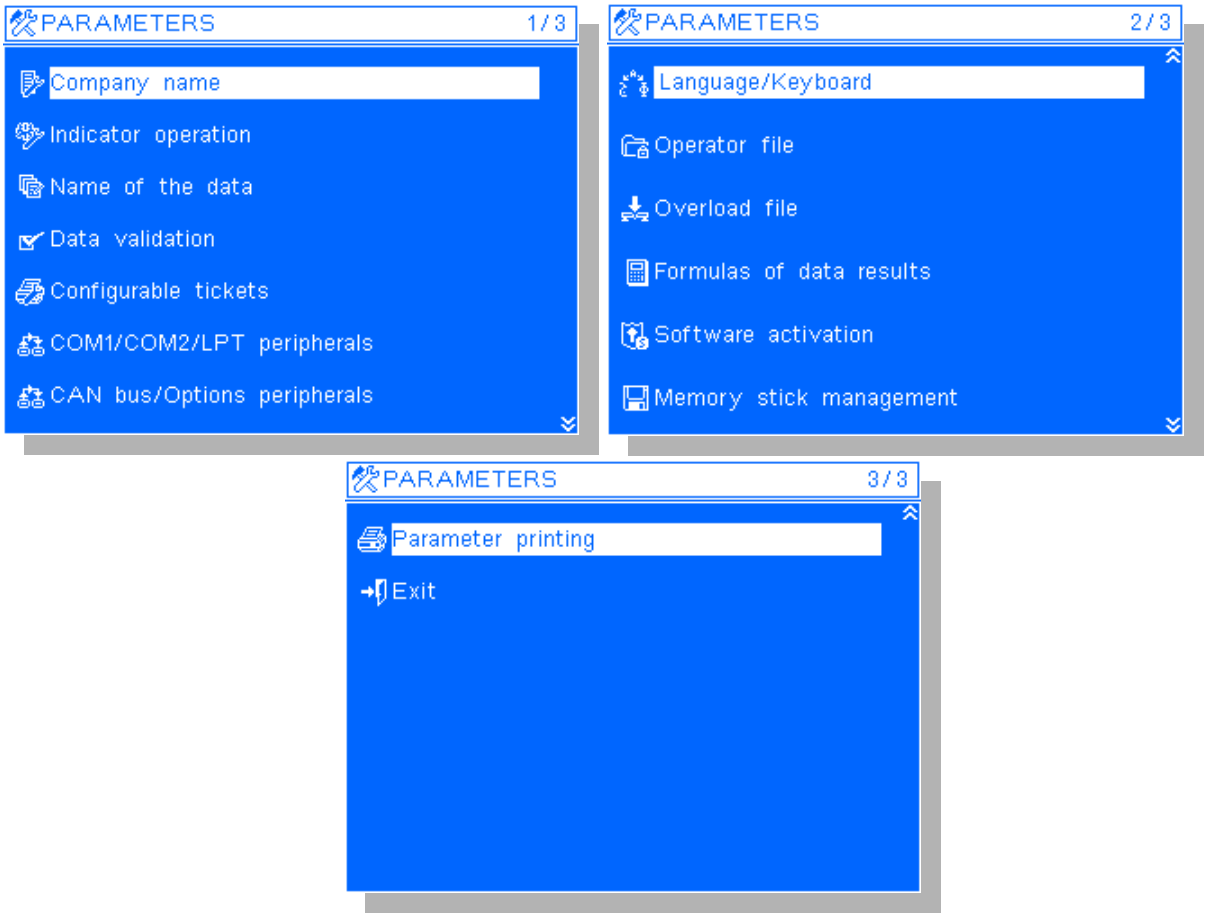
Printing example of a crossed total between the file 1 and the file 2:

```
----------------------------------------
          TOTALS
Date   : 2009/01/06  Time  : 17:05:54
----------------------------------------
Customer          / Product
2009/01/06 .. 2009/01/06
----------------------------------------

----------------------------------------
|    000000:MISCELLANEOUS
----------------------------------------
|     001|Sand          |       1220 kg|
----------------------------------------
|   Total               =       1220 kg|
----------------------------------------

----------------------------------------
|    000010:Customer 10
----------------------------------------
|     001|Sand          |       2100 kg|
----------------------------------------
|     002|Gravel        |       1500 kg|
----------------------------------------
|     003|Banking rock  |      10600 kg|
----------------------------------------
|   Total               =      14200 kg|
----------------------------------------
----------------------------------------
|   Total               =      15420 kg|
----------------------------------------
```

Remark: In the 40 columns printing mode, the labels of the file will be cut down to 14 characters.

3.4. Parameters

To access to the parameters, you must validate the function "**Parameters**" in the "**Management menu**" then type the key code "**0112**", you will get the menu separated in three parts as indicated below:



Remark: You may pass from one window to the other due to the keys and .

3.4.1. Company name

To modify the company name and the end of ticket, you must launch the function " **Company name**", then you must enter the following parameters:

****
Enter the first line of the company name, 20 characters in double width, and validate. (Header of the ticket)

Enter the second line of the company name, 39 characters, and validate. (Header of the ticket)

Enter the third line of the company name, 39 characters, and validate. (Header of the ticket)

Enter the fourth line of the company name, 39 characters, and validate. (Header of the ticket)

You go to the next seizure window.

Enter the first line of the end of ticket, 39 characters, and validate. (End of ticket)

Enter the second line of the end of ticket, 39 characters, and validate. (End of ticket)

3.4.2. Operation of the indicator

To modify the parameters of the operation of the indicator, you must launch the function "**Operation of the indicator**", then you must enter the following parameters:

Weigh in / weigh out mode (Input/Output) ⇒ **1**

Choose the type of the Inputs/Outputs operating mode.

- ✓ **0** : Input/Output disabled.
- ✓ **1** : Input/Output enabled and output ticket.
- ✓ **2** : Input/Output enabled and input and output ticket.
- ✓ **3** : Automatic Input/Output enabled and output ticket.
- ✓ **4** : Automatic Input/Output enabled and input and output ticket.

Automatic weigh in / weigh out landmark ⇒ **0**

Choose the operating mode type for the automatic weigh in / weigh out landmark.

- ✓ **0** : Weigh in / weigh out landmark disabled. (Identifier to be seized)
- ✓ **1** : Automatic weigh in / weigh out landmark, on 3 digits.
- ✓ **2** : Automatic weigh in / weigh out landmark, on 3 digits with test of the already existing landmark.

Remark: If the automatic weigh in/weigh out is enable the automatic weigh in / weigh out landmark is disable.

Delete tare ⇒ **Yes**

Choose to delete or not the tare after the weighing.

- ✓ **No** : The tare is not reset after the weighing.
- ✓ **Yes** : The tare is reset after the weighing.

Low threshold value ⇒ **000500 kg**

Enter the value of the low threshold, set this value to zero to disable the test of the low threshold. (Low threshold)

3.4.3. Name of the data

To modify the names of the identifier, the files and the simple data, you must launch the function "**Name of the data** ", then you must enter the following parameters:

Identifier ⇒ **Vehicle No**

Enter the name for the input/output identifier. (16 characters maximum)

Name of the file 1 ⇒ **Customer**

Enter the name of the file 1. (16 characters maximum)

Name of the file 2 ⇒ **Product**

Enter the name of the file 2. (16 characters maximum)

Name of the file 3 ⇒ **Site**

Enter the name of the file 3. (16 characters maximum)

Name of the file 4 ⇒ **Transporter**

Enter the name of the file 4. (16 characters maximum)

Go to the second seizure window.

Name of the file 5 ⇒ **Driver**

Enter the name of the file 5. (16 characters maximum)

Name of the simple data 1 ⇒ **Ref. No 1**

Enter the name of the simple data 1. (16 characters maximum)

Name of the simple data 2 ⇒ **Ref. No 2**
Enter the name of the simple data 2. (16 characters maximum)

Name of the simple data 3 ⇒ **Ref. No 3**
Enter the name of the simple data 3. (16 characters maximum)

Name of the simple data 4 ⇒ **Ref. No 4**
Enter the name of the simple data 4. (16 characters maximum)

You pass on the third seizure screen.
Name of the result data 1 ⇒ **Result No 1**
Enter the name of the result data 1. (16 characters maximum)

Unit of the result data 1 ⇒
Enter the unit of the result data 1, by default 5 spaces. (5 characters maximum)

Name of the result data 2 ⇒ **Result No 2**
Enter the name of the result data 2. (16 characters maximum)

Unit of the result data 2 ⇒
Enter the unit of the result data 2, by default 5 spaces. (5 characters maximum)

3.4.4. Data validation

To modify the parameters of the files and the simple data, you must launch the function "**Data validation**", then you must enter the following parameters:

Operation of the file 1 ⇒ **Not used**
Choose the operating mode for the file.
- ✓ **Not used** : File data not used.
- ✓ **Seizure in input weighing** : Data seizure during the input weighing.
- ✓ **Seizure in output weighing** : Data seizure during the output weighing.
- ✓ **Seizure in input and output weighing** : Data seizure during the input and output weighing.

⇒ **Without memorization if new data**
Choose the possibility or not to create a new line in the file during the weighing.
- ✓ **Without memorization if new data** : Use only of the data present in the file.
- ✓ **With memorization if new data** : Possibility to create a new line in the file during the weighing.

Operation of the file 2 ⇒ **Not used**
Choose the operating mode for the file. (Same as for the file 1)
⇒ **Without memorization if new data**
Choose the possibility or not to create a new line in the file during the weighing. (Same as for the file 1)

Operation of the file 3 ⇒ **Not used**
Choose the operating mode for the file. (Same as for the file 1)
⇒ **Without memorization if new data**
Choose the possibility or not to create a new line in the file during the weighing. (Same as for the file 1)

Then go to the second seizure window.
Operation of the file 4 ⇒ **Not used**
Choose the operating mode for the file. (Same as for the file 1)
⇒ **Without memorization if new data**
Choose the possibility or not to create a new line in the file during the weighing. (Same as for the file 1)

Operation of the file 5 ⇒ **Not used**
Choose the operating mode for the file. (Same as for the file 1)
⇒ **Without memorization if new data**
Choose the possibility or not to create a new line in the file during the weighing. (Same as for the file 1)

Operation of the simple data 1 ⇒ **Not used**
Choose the operating mode for the simple data.
- ✓ **Not used** : Simple data not used.
- ✓ **Seizure in input weighing** : Data seizure during the input weighing.
- ✓ **Seizure in output weighing** : Data seizure during the output weighing.
- ✓ **Seizure in input and output weighing** : Data seizure during the input and output weighing.

Operation of the simple data 2 ⇒ **Not used**
Choose the operating mode for the simple data. (Same as for the simple data 1)

Then go to the third seizure window.
Operation of the simple data 3 ⇒ **Not used**
Choose the operating mode for the simple data. (Same as for the simple data 1)

Operation of the simple data 4 ⇒ **Not used**
Choose the operating mode for the simple data. (Same as for the simple data 1)

Use of the result data 1 ⇒ **Not printed**
Choose the printing mode for the data.
- ✓ **Not printed** : data of the file not printed.
- ✓ **Printed in input weighing** : Printing of the data on the input weighing.
- ✓ **Printed in output weighing** : Printing of the data on the output weighing.
- ✓ **Printed in input and output weighing** : Printing of the data on the input and output weighing.

⇒ **Signed data**
Choose if the printing of the data will be done in signed values or in absolute values.
- ✓ **Signed data** : Printing of the data in signed values.
- ✓ **Data in absolute value** : Printing of the data in absolute values.

Use of the result data 2 ⇒ **Not printed**
Choose the printing mode for the data. (Same as for the result data 1)
⇒ **Signed data**
Choose if the printing of the data will be done in signed values or in absolute values. (Same as for the result data 1)

Then you pass on the fourth seizure screen.
D.P. position for simple data 1 ⇒ **0**
Choose the position of decimal point for simple data 1, this number corresponds to the number of digits after the decimal point. (From 0 to 5)

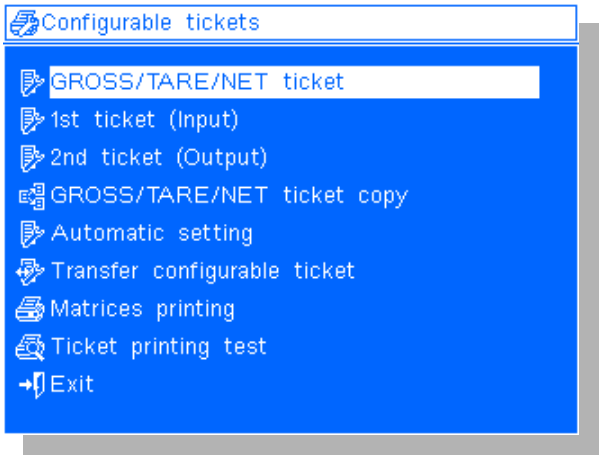
D.P. position for simple data 2 ⇒ **0**
Choose the position of decimal point for simple data 2, this number corresponds to the number of digits after the decimal point. (From 0 to 5)

D.P. position for result data 1 ⇒ **0**
Choose the position of decimal point for result data 1, this number corresponds to the number of digits after the decimal point. (From 0 to 7)

D.P. position for result data 2 ⇒ **0**
Choose the position of decimal point for result data 2, this number corresponds to the number of digits after the decimal point. (From 0 to 7)

3.4.5. Configurable tickets

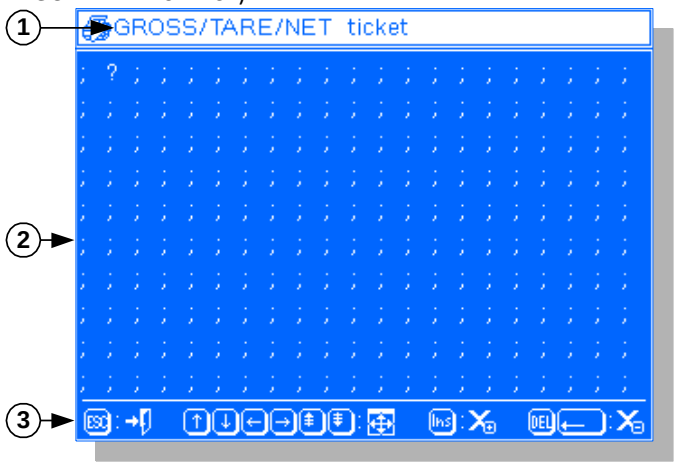
To access to the configurable tickets menu, you must launch the function "**Configurable tickets**", and you will get the following menu:



In this menu, you have the list of the available functions. You may launch the functions by pressing of the enter key once the function is pointed. To point a function, you must use the Up arrow and Down arrow keys.

3.4.5.1. Gross/Tare/Net ticket

Launch the function "**GROSS/TARE/NET ticket**".
Once this function is validated, a confirmation "Pop-up" window will be displayed, choose if yes or no you want to use the standard ticket during a Gross/Tare/Net weighing. (By default the choice is yes)
If you choose not to use the standard ticket, you will get the following seizure window of the configurable ticket. (Refer "*4. THE CONFIGURABLE TICKETS*")



Legend:
- 1 ⇒ Name of the configurable ticket under edition.
- 2 ⇒ Edition zone of the configurable ticket. (35 lines)
- 3 ⇒ Reminder of the main functions of the keys.

3.4.5.2. 1st ticket (Input)

Launch the function "**1st ticket (Input)**".
Function identical to "*3.4.5.1. Gross/Tare/Net ticket*"

3.4.5.3. 2nd ticket (Output)

Launch the function "**2nd ticket (Output)**".
Function identical to "*3.4.5.1. Gross/Tare/Net ticket*"

3.4.5.4. GROSS/TARE/NET ticket copy

Launch the function "**GROSS/TARE/NET ticket copy** ".
Once the function is validated, a confirmation "Pop-up" window will be displayed, choose if yes or no you want to copy the content of the Gross/Tare/Net configurable ticket in the input and output configurable tickets. (By default the choice is no)
Then you will return to the configurable tickets menu.

3.4.5.5. Automatic setting

This function allows creating automatically one of the three configurable tickets recorded in the indicator according to the configuration of the indicator.
For this you must launch the function "**Automatic setting**".
Once this function is validated, a "Pop-up" seizure window will be displayed, choose the configurable ticket to be created and validate.
A confirmation "Pop-up" window will be displayed, choose if yes or no you want to create the configurable ticket. (By default the choice is No)
The creation is launched. A "Pop-up" will be displayed during this operation.
Once the creation is finished, you will return to the configurable tickets menu.
Remark: If during the operation there is an audible beep from the indicator it would mean that the ticket has been created in condensed mode.

3.4.5.6. Configurable ticket transfer

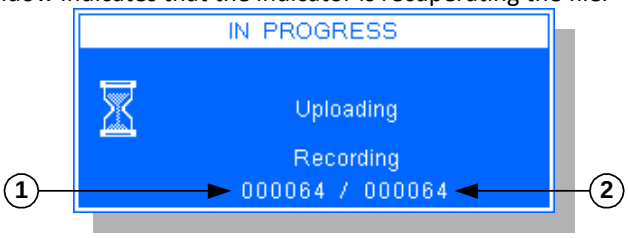
This function allows either sending one of the three recorded configurable tickets from the indicator to the computer ("**Saving**") either recuperating it from the computer ("**Uploading**") to save it in the indicator.
These transfers may be made through one of the following ports: COM1, COM2 or USB. (In case of their availability)
Remark: The transferred file is a text file (.TXT), it is directly exploitable by a simple text treatment (Ex: Bloc-notes), pay attention to the exportation mode of the selected data, it is better to be in the UNICODE mode. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

3.4.5.6.1. Transfer of a configurable ticket to a computer

For this you must proceed as follows. *(Example of a transfer on the port COM1 of the indicator and the PC)*
Connect the PC (on Com1) with the IDL (on Com1) and launch the Hyper terminal software. (Access for hyperterm.exe: **"C:\Program Files\Accessories\HyperTerminal\HYPERTRM.EXE"**)
Give a name to the connection and validate. (TERMINAL.IDL)
Then in the header "Connect using" you must validate "Direct to Com1" then configure the connection in 9600 Bauds, 8 bits, no parity, one stop, and no flow control.
Always under HyperTerminal, you must go to "Transfer" then in "Capture the text", define the name of the file to be saved and validate "Start".
The computer is ready to communicate with the indicator. Launch the function "**configurable ticket Transfer**".
Once the function validated, a "Pop-up" seizure window will be displayed, choose the configurable ticket to be used for the transfer and validate.
A second "Pop-up" seizure window will be displayed, choose the communication port to be used for the transfer and validate.
A third "Pop-up" transfer confirmation window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of the configurable ticket or execute its recuperation, choose to execute its saving and validate.
The saving is launched. A "Pop-up" window with a bar graph will be displayed during this operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the configurable tickets menu.
Once the transfer is finished, you must close the capture. For this, you must go to "Transfer" then in "Capture the text" and "STOP".

3.4.5.6.2. Recuperation of a configurable ticket through a Computer

For this you must proceed as follows. *(Example of a transfer on the port COM1 of the indicator and the PC)*
Connect the PC (on Com1) with the IDL (on Com1) and launch the Hyper terminal software. (Access for hyperterm.exe: **"C:\Program Files\Accessories\HyperTerminal\HYPERTRM.EXE"**)
Give a name to the connection and validate. (TERMINAL.IDL)
Then in the header "Connect using" you must validate "Direct to Com1" then configure the connection in 9600 Bauds, 8 bits, no parity, one stop, and no flow control.
The computer is ready to communicate with the indicator. Launch the function "**configurable ticket Transfer**".
Once the function validated, a "Pop-up" seizure window will be displayed, choose the configurable ticket to be used for the transfer and validate.
A second "Pop-up" seizure window will be displayed, choose the communication port to be used for the transfer and validate.
A third "Pop-up" transfer confirmation window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of the configurable ticket or execute its recuperation, choose to execute the recuperation of the configurable ticket and validate.
A "Pop-up" indicates that the indicator is waiting for the recuperation of the configurable ticket.
Under HyperTerminal, you must go to "Transfer" then in "Send text file", define the file to be loaded and validate "Open".
The following "Pop-up" window indicates that the indicator is recuperating the file.



Legend:

- 1 ⇒ Number of received bytes.
- 2 ⇒ Number of added bytes.

Once the recuperation is finished a "Pop-up" window will be displayed and you will return to the configurable tickets menu.

3.4.5.7. Matrices printing

Launch the function "**Matrices printing**". The printing of the matrices of the three configurable tickets is launched. A "Pop-up" window will be displayed during this operation.
Once the printing is finished, you will return to the configurable tickets menu.

3.4.5.8. Ticket printing test

Launch the function "**Ticket printing test**". The printing of the three configurable tickets is launched. A "Pop-up" window will be displayed during this operation.
Once the printing is finished, you will return to the configurable tickets menu.

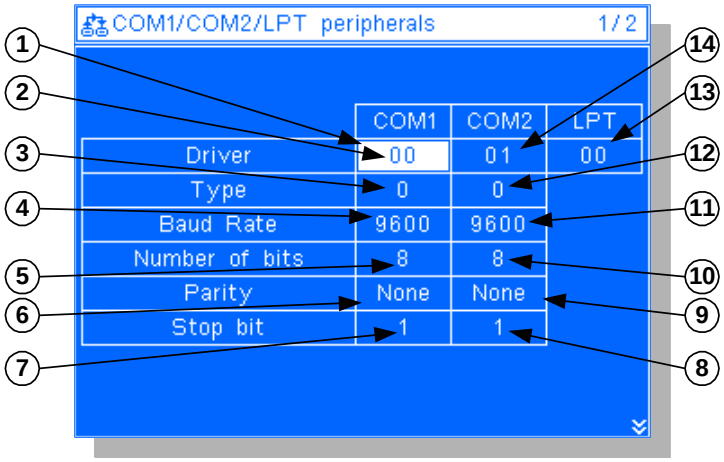
Remark: This printing will not increment the weighing number and it will not be recorded in the DSD.

3.4.5.9. Return to the "Parameters" menu

Launch the function "**Exit**" or press on the key ESC and you will return to the "**Parameters**" menu.

3.4.6. COM1/COM2/LPT peripherals

To modify the operating parameters of the peripherals on **COM1/COM2/LPT**, you must launch the function "**COM1/COM2/LPT peripherals**", then you will get a first seizure window in a table chart format to be filled as indicated below:



Legend:

- 1 ⇒ Pointer of the data under seizure.
- 2 ⇒ Driver for **COM1**.
- 3 ⇒ Serial link type for **COM1**.
- 4 ⇒ Communication baud rate for **COM1**.
- 5 ⇒ Number of bits for **COM1**.
- 6 ⇒ Parity type for **COM1**.
- 7 ⇒ Number of stop bits for **COM1**.
- 8 ⇒ Number of stop bits for **COM2**.
- 9 ⇒ Parity type for **COM2**.
- 10 ⇒ Number of bits for **COM2**.
- 11 ⇒ Communication baud rate for **COM2**.
- 12 ⇒ Serial link type for **COM2**.
- 13 ⇒ Driver for **LPT**.
- 14 ⇒ Driver for **COM2**.

Then you must enter the following parameters:

Driver

Choose the driver type for **COM1** (by default **00**), **COM2** (by default **01**) and **LPT**. (By default **00**)

- ✓ **00** : Nothing.
- ✓ **01** : Weight remote display. (Not for the **LPT** port)
- ✓ **02** : Stream computer. (Not for the **LPT** port)
- ✓ **03** : Modem protocol. (TransFic software, not for the **LPT** port)
- ✓ **04** : ERIC protocol. (Not for the **LPT** port, cumulative on **COM1/COM2**)
- ✓ **06** : PT6S3 protocol. (Not for the **LPT** port, cumulative on **COM1/COM2**)
- ✓ **07** : 40 columns printer.
- ✓ **08** : 80 columns printer.
- ✓ **09** : 80 columns printer used as 40 columns.
- ✓ **20** : JBUS/MODBUS protocol or MODBUS TCP if "**Type**" = **5** (Ethernet only for **COM2** with the ETHERNET XPORT option board), see "*5.1.1. JBUS/MODBUS protocol*" and "*5.1.2. Fieldbus: Profibus-DP, DeviceNet, Ethernet Modbus TCP*, ProfiNet, EtherNet/IP".

Type

Choose the serial link type for **COM1** (by default **0**) and **COM2**. (By default **0**)

- ✓ **0** : RS232 without DTR test.
- ✓ **1** : RS232 with DTR test.
- ✓ **2** : RS485 2 wires. (Only for **COM2**)
- ✓ **3** : Current loop. (Only for **COM2**)
- ✓ **4** : RS485 4 wires. (Only for **COM2**)
- ✓ **5** : Ethernet. (Board ETHERNET XPORT only for **COM2**)

Baud Rate
Choose the communication baud rate for **COM1** (by default **9600**) and **COM2**. (By default **9600**)

- ✓ **1200** : 1200 bauds.
- ✓ **2400** : 2400 bauds.
- ✓ **4800** : 4800 bauds.
- ✓ **9600** : 9600 bauds.
- ✓ **19200** : 19200 bauds.
- ✓ **38400** : 38400 bauds.

Number of bits
Choose the number of bits for the serial links **COM1** (by default **8**) and **COM2**. (By default **8**)

- ✓ **7** : 7 bits.
- ✓ **8** : 8 bits.

Parity
Choose the parity type for the serial links **COM1** (by default **none**) and **COM2**. (By default **none**)

- ✓ **None** : No parity.
- ✓ **Odd** : Odd parity.
- ✓ **Even** : Even parity.

Stop Bit
Choose the number of stop bits for the serial links **COM1** (by default **1**) and **COM2**. (By default **1**)

- ✓ **1** : 1 stop bit.
- ✓ **2** : 2 stop bits.

Remarks:

- Some combinations of the number of bits and of the parity do not operate properly. Choose, if it is possible, 8 bits, no parity, and 1 stop bit.
- If the ETHERNET XPORT option board has been validated on **COM2** a confirmation "Pop-up" window will be displayed on the return to the "Parameters" menu. Choose if yes or no you want to access to the XPORT board settings. Once launched the setup is done via the **COM1** serial link, refer to the instructions of the ETHERNET XPORT option board.
- If the PT6S3 protocol is enabled on **COM1** or **COM2** a seizure "Pop-up" window of the communication settings of PT6S3 will be displayed on the return to the "Parameters" menu.

Go to the second seizure window where you must enter the following parameters:

Paper length ⇒ **36**
Enter the paper length in number of Line Feeds.

IDL station number ⇒ **00**
Enter the station number of the indicator to be used for the communication protocols.

Printing mode ⇒ **ASCII**
Choose the format to be used during the printings. (Refer to "*5.2. Which printing mode to choose*")

- ✓ **Unicode** : For a Unicode printer.
- ✓ **ASCII** : For an ASCII printer.
- ✓ **ISO8859-15** : For a printer configured in the ISO 8859-15 mode.
- ✓ **EPSON PCAR864** : For an EPSON printer configured in the PCAR 864 mode. (Arabic)
- ✓ **ESC/P2 (FARSI)** : For a printer compatible with the protocol ESC/P2. (Farsi)

Data exportation mode ⇒ **Unicode**
Choose the format to be used during the data exportation. (Files transfer, …)

- ✓ **Unicode** : For a Unicode link.
- ✓ **ASCII** : For an ASCII link.
- ✓ **ISO8859-15** : For an ISO 8859-15 link.

3.4.7. CAN bus/Options peripherals

To modify the operating parameters of the peripherals on the CAN bus, the option boards parameters and the terminals management parameters you must launch the function "**CAN bus/Options peripherals** ", then you will get a first seizure window where you must enter the following parameters:

CAN bus driver ⇒ **0**
Choose the driver type of the CAN bus link.
- ✓ **0** : No driver.
- ✓ **1** : Weight remote display.

Memory stick option (EXT.MEM) ⇒ **0**
Choose an operation for the memory extension. (USB memory stick)
- ✓ **0** : No specific operation.
- ✓ **2** : Stream computer.

Define the settings for the "**CanMK-4I4O gateway**":
Type ⇒ **0**
Choose the inputs/outputs operating mode.
- ✓ **0** : No "**CanMK-4I4O gateway**".
- ✓ **1** : Inputs/outputs type 1: Inputs/outputs are managed by an external system using a protocol, see "*5.1.2. Fieldbus: Profibus-DP, DeviceNet, Ethernet Modbus TCP*, ProfiNet, EtherNet/IP".
- ✓ **2** : Inputs/outputs type 2: Traffic lights/Barriers.
- ✓ **3** : Inputs/outputs type 3: Loading cycle with the choice of a Gross or Net loading.
- ✓ **4** : Inputs/outputs type 4: Loading cycle with always a Gross loading.
- ✓ **5** : Inputs/outputs type 5: Loading cycle with always a Net loading.
- ✓ **6** : Inputs/outputs type 6: Loading cycle with a Gross loading and Net display, the tare operation is possible by pressing on the tare key.
- ✓ **7** : Inputs/outputs type 7: Loading cycle with a Net loading and Net display, the tare operation is possible by pressing on the tare key.

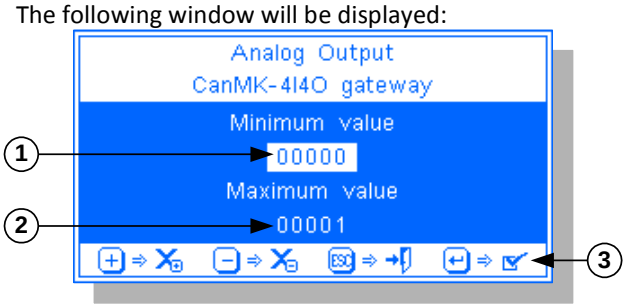
Definition of the 4 outputs: (Type 2)
O1: Low threshold.
O2: Weighing done.
O3: Input weighing done.
O4: Output weighing done.
Definition of the 4 inputs and the 4 outputs: (Type 3 to 7)

O1: Low threshold.	**I1**: Resume a suspended cycle.
O2: End of loading.	**I2**: Loading authorization.
O3: High speed loading. (HS)	**I3**: Suspend a cycle.
O4: Low speed loading. (LS)	**I4**: Cancel a cycle.

Analog Output ⇒ **0**
Choose the analog output operating mode. (0-10V or 4-20mA)
- ✓ **0** : No analog output.
- ✓ **1** : Gross weight on analog output.
- ✓ **2** : Net weight on analog output.
- ✓ **3** : Net weight on analog output, absolute value.

Remark: If the analog output has been validated its parameters must be set, a confirmation "Pop-up" window will be displayed on the return to the "Parameters" menu. Choose if yes or no you want to access to the analog output settings.

The following window will be displayed:



Legend :
- 1 ⇒ Low point value. (0V/4mA)
- 2 ⇒ High point value. (10V/20mA)
- 3 ⇒ Reminder of the main functions of the keys

Use of the keyboard :

- The key allows accessing to the low point seizure.
- The key allows accessing to the high point seizure.
- The key launch / speed up the incrementing of the current seizure or stop the decrementing.
- The key launch / speed up the decrementing of the current seizure or stop the incrementing.
- The key allows accessing to the high point seizure.
- The key allows quitting the seizure and returning to the "Parameters" menu.

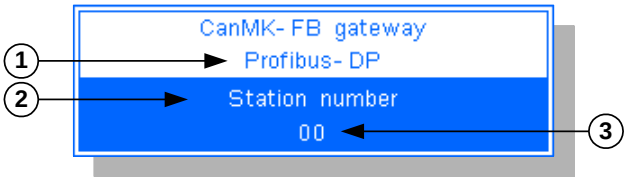
Define the settings for the "**CanMK-FB**" field bus gateway:

CanMK-FB gateway ⇒ **No**

Choose the field bus of the "**CanMK-FB**" gateway, see "*5.1.2. Fieldbus: Profibus-DP, DeviceNet, Ethernet Modbus TCP*, ProfiNet, EtherNet/IP".

- ✓ **No** : No "**CanMK-FB**" field bus gateway.
- ✓ **Profibus-DP** : Gateway with "**Profibus-DP**" field bus.
- ✓ **DeviceNet** : Gateway with "**DeviceNet**" field bus.
- ✓ **Modbus TCP** : Gateway with "**Modbus TCP**" field bus.
- ✓ **ProfiNet** : Gateway with "**ProfiNet**" field bus.
- ✓ **EtherNet/IP** : Gateway with "**EtherNet/IP**" field bus.

If a field bus has been validated for the "**CanMK-FB**" gateway there is obtained a succession of "Pop-up" windows of additional parameters similar to the one below:



Legend:
- 1 ⇒ Selected field bus.
- 2 ⇒ Additional parameter label.
- 3 ⇒ Additional parameter seizure area.

According the selected field bus the additional parameters to be specified change, the following table lists the parameters according to the field bus.

Station number ⇒ **00**

Enter the station number of the "**CanMK-FB**" gateway to be used on the field bus.

Baud Rate ⇒ **0**

Enter the field bus baud rate.

- ✓ **0 (Auto-Baudrate)** : Auto-detection of bus speed.
- ✓ **1 (125kbps)** : Bus at 125 kbps.
- ✓ **2 (250kbps)** : Bus at 250 kbps.
- ✓ **3 (500kbps)** : Bus at 500 kbps.

IP address ⇒ **000.000.000.000**

Enter the network IP address of the "**CanMK-FB**" gateway to be used on the field bus, leave the address to "**000.000.000.000**" to enable DHCP.

Subnet MASK ⇒ **000.000.000.000**

Enter the network subnet mask of the "**CanMK-FB**" gateway to be used on the field bus. (Parameter use if DHCP is disabled)

Gateway address ⇒ **000.000.000.000**

Enter the network gateway address of the "**CanMK-FB**" gateway to be used on the field bus. (Parameter use if DHCP is disabled)

Memory encoding ⇒ **Big-Endian**

Enter the desired memory encoding for the data exchanged on the field bus.

- ✓ **Big-Endian** : MOTOROLA format memory encoding. (MSB First)
- ✓ **Little-Endian** : INTEL format memory encoding (LSB First)

Go to the second seizure window where you must enter the following parameters:

Terminals operating mode ⇒ **00**

Choose the operating mode of the VIGILE TERM / GARDIANE terminals.

- ✓ **00** : Put terminals out of service.
- ✓ **01** : Weighing on the terminals with badges.
- ✓ **02** : Weighing on the terminals and manual seizure of the badge code.
- ✓ **03** : Weighing on the terminals and manual seizure of the identifier.
- ✓ **04** : Weighing on the terminals and manual seizure of the identifier and the tare value.(G/T/N weight)

Operation of the terminal Terminal n°1 ⇒ **0**

Choose the operation of the terminal n°1.

- ✓ **0** : No terminal n°1.
- ✓ **1** : Terminal n°1 for 1st weighing. (Input)
- ✓ **2** : Terminal n°1 for 2nd weighing. (Output)
- ✓ **3** : Terminal n°1 for 1st and/or 2nd weighing. (Input/Output)

Operation of the terminal Terminal n°2 ⇒ **0**

Choose the operation of the terminal n°2.

- ✓ **0** : No terminal n°2.
- ✓ **1** : Terminal n°2 for 1st weighing. (Input)
- ✓ **2** : Terminal n°2 for 2nd weighing. (Output)
- ✓ **3** : Terminal n°2 for 1st and/or 2nd weighing. (Input/Output)

Number of tickets
1st weighing (Input) ⇒ **0**
Choose the number of ticket that the terminal should print in the 1st weighing (Input), from **0** to **9.**

Number of tickets
2nd weighing (output) ⇒ **0**
Choose the number of ticket that the terminal should print in the 2nd weighing (Output), from **0** to **9.**

Site number (Badges) ⇒ **000000**
Choose the site number for badges. (From **000000** to **999999)**

3.4.8. Language/Keyboard

To modify the parameters of the application language, the keyboard type and the calendar type, you must launch the function "**Language/Keyboard**", then you must enter the following parameters:

Keyboard type ⇒ **en-US**
Choose the used keyboard type.

- ✓ **en-US** : QWERTY USA keyboard.
- ✓ **en-GB** : QWERTY UK keyboard.
- ✓ **fr-FR** : AZERTY French keyboard.
- ✓ **de-DE** : QWERTZ German keyboard.
- ✓ **fa-IR** : QWERTY Iranian keyboard.
- ✓ **ar-SA** : QWERTY Arabic keyboard.
- ✓ **de-CH** : QWERTZ Swiss German keyboard.
- ✓ **es-ES** : QWERTY Spanish keyboard.

Language ⇒ **ENGLISH**
Choose the used language in the application.

- ✓ **ENGLISH** : English.
- ✓ **DEUTSCH** : German.
- ✓ **FARSI** "فارسي" : Farsi.
- ✓ **FRANÇAIS** : French.
- ✓ **ESPAÑOL** : Spanish.
- ✓ **ARABIC** "عربي" : Arabic.

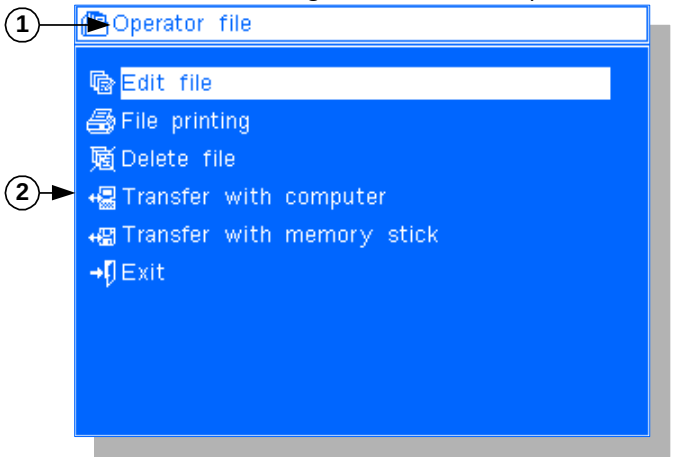
Calendar ⇒ **Gregorian**
Choose the calendar type to be used.

- ✓ **Gregorian** : Gregorian calendar.
- ✓ **Solar Hejri** : Solar Hejri calendar. (Persian calendar)

3.4.9. Operator file.

This file lists the operators authorized to open a session to execute the weighing (refer to "*2.5. Management of the operator session*"), the access to this file is authorized only for the administrator type of operators or in the case where the session management is disabled. The session management is enabled from the time that the operator file contains at least one operator type user and one administrator type user.

Start the function "**Operator file**", the management of the file is presented as follows:



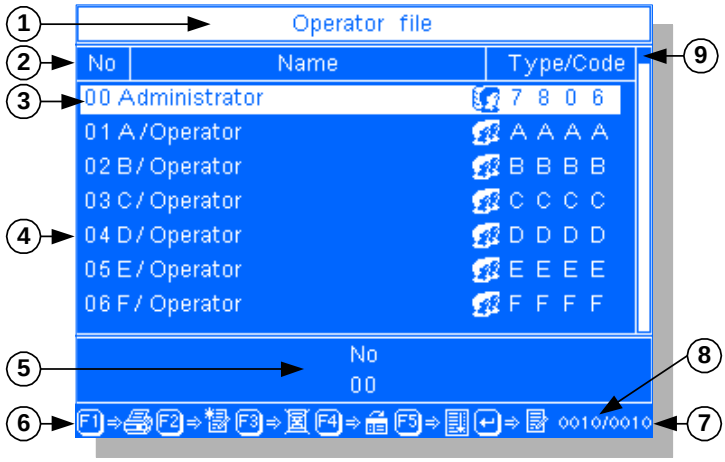
Legend:

- 1 ⇒ Name of the file actually managed.
- 2 ⇒ List of the available functions.

In this menu you have the list of the available functions. You start the functions by pressing on the enter key once the function is pointed. To point a function you must use the Up and Down arrows of the keyboard.

3.4.9.1. Edit file

When you launch an "**Edit file**" function, you will get the following display.



Legend:

- 1 ⇒ Name of the file.
- 2 ⇒ Header of the file.
- 3 ⇒ Pointer, in the example above it points the first line of the file.
- 4 ⇒ Lines of the file with its different fields.
- 5 ⇒ Seizure zone for the search in the file.
- 6 ⇒ List of the available functions.
- 7 ⇒ Maximum number of records possible in the file.
- 8 ⇒ Actual number of records in the file.
- 9 ⇒ Cursor indicating the position in the file.

The code "**00**" with the name "**Administrator**", the administrator type ( ) and the code for the opening of a session "**7806**" are created by default.
To access to a record you must enter its code on two digits. After validation, a seizure "Pop-up" will be displayed on the screen allowing the seizure of the fields corresponding to the entered code.
However it is possible to access a record otherwise by changing the search field in the file, like this you can reach a record with anyone of these fields.

Use of the keyboard:

- The key allows modifying the pointed line, a seizure "Pop-up" window will be displayed.
- The key allows accessing to the previous line of the file.
- The key allows accessing to the previous line of the file.
- The key allows accessing to the 8th previous line of the file.
- The key allows accessing to the 8th next line of the file.
- The key allows accessing to the first line of the file. (Display of the first 8 lines)
- The key allows accessing to the last line of the file. (Display of the last 8 lines)
- The key allows printing the pointed line.
- The key allows creating a new line in the file.
- The key allows deleting the pointed line from the file.
- The key allows changing the searching filed in the file.
- The key allows sorting the content of the file according to the searching field in the file.
- The key allows quitting the edition mode and returning to the file management menu.

3.4.9.1.1. Printing of a line: F1

Press on the key F1, the printing of the pointed line will be launched. A "Pop-up" window will be displayed during this operation.

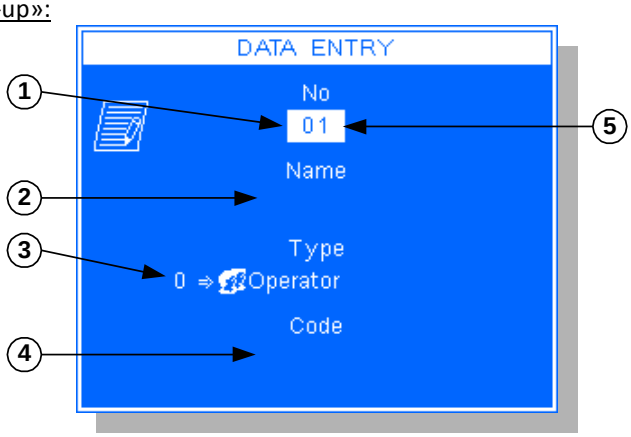
3.4.9.1.2. Creation of a line: F2

Press on the key F2 and a file seizure "Pop-up" window appears unless if the file is full, in this case an error "Pop-up" window will be displayed.
Fill the various fields and once the latest one is validated, the line will be added to the file.

Use of the keyboard:

- The key ↵ allows validating the seizure in progress and passing to the next seizure.
- The keys ↑ and ↓ allow passing from one filed to another.
- The key Delete allows re-initializing the seizure in progress.
- The key ESC allows cancelling the creation in progress.

Example of a seizure "Pop-up»:



Legend:

- 1 ⇒ Field 1: Operator code. (2 digits)
- 2 ⇒ Field 2: Operator name. (16 characters)
- 3 ⇒ Field 3: Operator type. (0 = Operator, 1 = Administrator)
- 4 ⇒ Field 4: Code for the opening of a session. (4 characters)
- 5 ⇒ Pointer indicating the seizure in progress.

3.4.9.1.3. Deleting of a line: F3

Press on the key F3 and a confirmation "Pop-up" will be displayed, choose if yes or no you want to delete the pointed line. (By default the choice is No)
Then the deleting will be executed.

3.4.9.1.4. Choice of the searching field in the file: F4

Press on the key F4 and the seizure zone for the searching in the file passes to the next field.

3.4.9.1.5. Sorting of the file: F5

Press on the key F5 and the content of the file will be sorted in an ascending order according to the searching field in progress.

3.4.9.1.6. Modification of the pointed line:

Press on the key and a file seizure "Pop-up" will appear with the information of the pointed line.
Modify the various fields and once the latest field is validated, the line will be recorded in the file.

Use of the keyboard:

- The key allows validating the seizure in progress and passing to the next seizure.
- The keys and allow passing from one field to another.
- The key allows re-initializing the seizure in progress.
- The key allows cancelling the creation in progress.

3.4.9.2. File printing

Launch the function "**File printing**". The file printing will be started. A "Pop-up" will be displayed during this operation.
Once the printing is finished, you will return to the file management.

Example of the printing:

```
----------------------------------------
        Operator file

Date    : 2010/02/08  Time    : 15:20:37
----------------------------------------
|  N°  |      Name      | Type  / Code |
----------------------------------------
|  00  |Administrator   |     1 / 7806 |
|--------------------------------------|
```

The first field corresponds to the "**N°**" of the operator, the second field corresponds to its "**Name**", the third field corresponds to its "**Type**" and the fourth field corresponds to the opening "**Code**" of a session.

3.4.9.3. Delete of a file

Lunch the function "**Delete file**" and a confirmation "Pop-up" will be displayed, choose if yes or no you want to delete the file. (By default the choice is No)
Then the file deleting will be executed. A "Pop-up" will be displayed during this operation.

3.4.9.4. Transfer of the file with a computer

This function allows either sending the saved file from the indicator toward a computer ("**Saving**") or recuperating the file from the computer ("**Uploading**") to save it on the indicator.
These transfers may be done through one of the following ports: COM1, COM2 or USB. (Subject to their availability)

Remark: The transferred file is a text file with separators by tabulation (.TXT), it is directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data.
(Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

Refer to the paragraph "*3.2.1.4. Transfer of the file with a computer*" to get the details of this function.

3.4.9.5. Transfer of a file with the memory extension (USB memory stick)

This function allows either sending the saved file from the indicator toward the memory extension ("**Saving**") either to recuperating the file from the memory extension ("**Uploading**") to save it on the indicator.

Remark: The transferred file is a text file with separators by tabulation "OPERATOR.TXT", it is directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

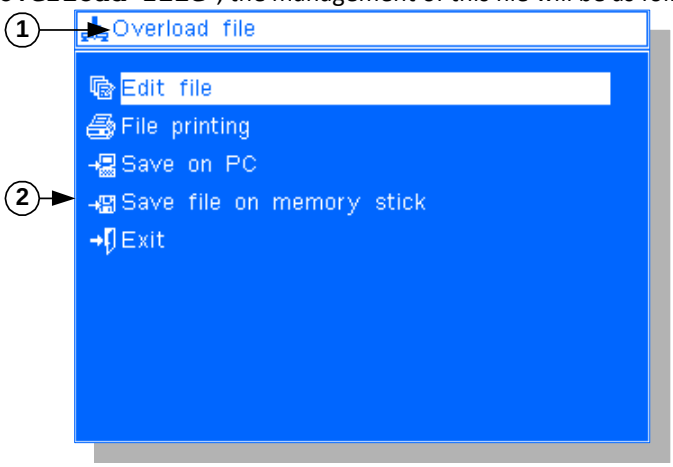
Refer to the paragraph "*3.2.1.5. Transfer of a file with the memory extension (USB memory stick)*" to get the details of this function.

3.4.9.6. Return to the "Parameters" menu

Launch the function "**Exit**" or press on the key ESC to return to the "**Parameters**" menu.

3.4.10. Overload file

This file lists the last fifty overloads measured on the load receptor.
Launch the function "**Overload file**", the management of this file will be as follows:

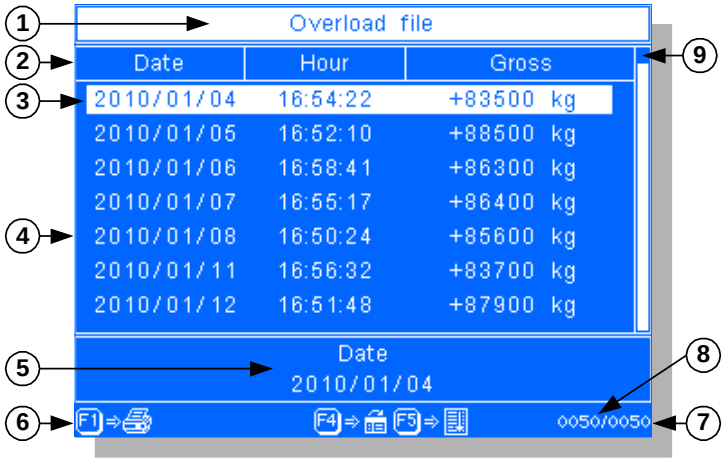


Legend:
- 1 ⇒ Name of the file actually managed.
- 2 ⇒ List of the available functions.

In this menu you have the list of the available functions. You start a function by pressing on the enter key once this function is pointed. To point a function you must use the up and down arrows of the keyboard.

3.4.10.1. Edit file

When you launch an "**Edit file**" function, you will get the following display.



Legend:
- 1 ⇒ Name of the file.
- 2 ⇒ Header of the file.
- 3 ⇒ Pointer, in this example it points the first line of the file.
- 4 ⇒ Lines of the file with its fields.
- 5 ⇒ Seizure zone for a search in the file.
- 6 ⇒ List of the possible functions.
- 7 ⇒ Maximum number of records possible in the file.
- 8 ⇒ Actual number of records in the file.
- 9 ⇒ Cursor indicating the position in the file.

It is possible to access to a record otherwise by changing the search field in the file, like this you can reach a record by anyone of its fields.

Use of the keyboard:

- The key ↑ allows accessing to the previous line of the file.
- The key ↓ allows accessing to the previous line of the file.
- The key Page Up allows accessing to the 8th previous line of the file.
- The key Page Down allows accessing to the 8th next line of the file.
- The key Home allows accessing to the first line of the file. (Display of the first 8 lines)
- The key End allows accessing to the last line of the file. (Display of the last 8 lines)
- The key F1 allows printing the pointed line.
- The key F4 allows changing the searching filed in the file.
- The key F5 allows sorting the content of the file according to the searching field in the file.
- The key ESC allows quitting the edition mode and returning to the file management menu.

3.4.10.1.1. Printing of a line: F1

Press on the key F1, the printing of the pointed line will be launched. A "Pop-up" window will be displayed during this operation.

3.4.10.1.2. Choice of the searching field in the file: F4

Press on the key F4 and the seizure zone for the searching in the file passes to the next field.

3.4.10.1.3. Sorting of the file: F5

Press on the key F5 and the content of the file will be sorted in an ascending order according to the searching field in progress.

3.4.10.2. File printing

Launch the function "**File printing**". The file printing will be started. A "Pop-up" will be displayed during this operation. Once the printing is finished, you will return to the file management.

Example of the printing:

```
----------------------------------------
        Overload file

Date    : 2010/01/07  Time    : 17:00:45
----------------------------------------
|    Date    |   Time   |    Gross     |
----------------------------------------
| 2010/01/04 | 16:54:22 |    83500 kg  |
|--------------------------------------|
| 2010/01/05 | 16:52:10 |    88500 kg  |
|--------------------------------------|
| 2010/01/06 | 16:58:41 |    86300 kg  |
|--------------------------------------|
```

The first field corresponds to the "**Date**" of the overload, the second field corresponds to the "**Time**" of the overload and the third field corresponds to the value of the "**Gross**" weight during the overload.

3.4.10.3. Saving the file on a computer

This function allows sending the recorded file from the indicator toward a computer.
These transfers may be done through the following ports : COM1, COM2 or USB. (Subject to their availability)
Remark: The transferred file is a text file with separators by tabulation (.TXT), it is directly exploited by a spreadsheet. (Ex : EXCEL), Pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

Refer to the paragraph "*3.2.2.4. File saving on a computer*" to get the details of this function.

3.4.10.4. File transfer with a memory extension (USB memory stick)

This function allows sending the recorded file from the indicator toward the memory extension.
Remark: The transferred file is a text file with separators by tabulation "OVERLOAD.TXT", it is directly exploited by a spreadsheet. (Ex: EXCEL), pay attention to the exportation mode of the selected data. (Refer to "*3.4.6. COM1/COM2/LPT peripherals*")

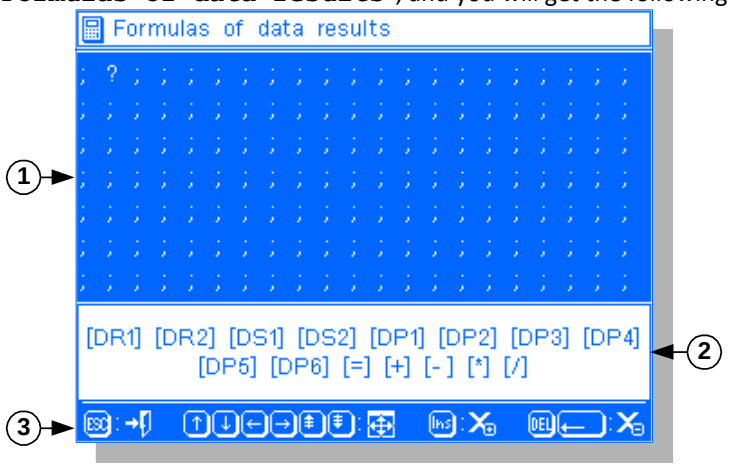
Refer to the paragraph "*3.2.2.5. File transfer with a memory extension (USB memory stick)*" to get the details of this function.

3.4.10.5. Return to the "Parameters" menu

Launch the function "**Exit**" or press on the key ESC to return to the "**Parameters**" menu.

3.4.11. Formulas of data results

The formulas of data results allow calculating the values of the data results DR1 and DR2 according to the variables (variable operands) and/or the constants (constant operands).
Start the function "**Formulas of data results**", and you will get the following display.



Legend:
- 1 ⇒ Edition zone of the formulas. (7 lines)
- 2 ⇒ List of the various operands and operations usable in the formulas.
- 3 ⇒ Reminder of the main functions of the keys.

Enter the requested formulas (refer to "*3.4.11.3. Examples of formulas*") and once finished, leave the function by pressing on the key Ech.
If no error is detected, you will return to the "**Parameters**" menu, if a syntax error is detected, an error Pop-up will be displayed with the code "**S***xxx*". The number "*xxx*" corresponds to the position of the error in the formulas, for example "**S006**" indicates a syntax error on the sixth character.

3.4.11.1. The operands and operations usable in the formulas of the data results

The ten variable operands:

DP1 : Gross weight data.
DP2 : Tare weight data.
DP3 : Net weight data.

Remark:
DP1 and DP2 can be inverted during a double weighing!

DP4 : Gross weight data.
DP5 : Tare weight data.
DP6 : Net weight data.

Remark:
DP4 and DP5 cannot be inverted,
To be used for the output tickets.

DS1 : Code of the simple data 1.
DS2 : Code of the simple data 2.

Remark:
Must be used only if the data is seized during the weighing.

DR1 : Signed value of the data result 1.
DR2 : Signed value of the data result 2.

Remark:
Must be used only if the data is already calculated.

The constant operands:

X...X.X...X : Number of 7 digits maximum with or without the decimal point. (The decimal point can be a decimal point "**.**" or a comma "**,**")

The four operations:

+ : Addition of two operands.
- : Subtraction of two operands.
***** : Multiplication of two operands.
/ : Division of two operands.

Supplements:

= : Separator between the result (**DR1** or **DR2**) and the formula.
- : Addition of the minus sign to an operand. (Corresponds to a multiplication of the operand by -1)
? : End of the formulas.

3.4.11.2. Operation of the keys for the formulas editor

The key 

allows leaving the formulas editor and you will return to the "**Parameters**" menu.

The key  allows returning to the beginning of the line.

The key  allows moving the cursor to the left.

The key  allows going to the previous line.

The key  allows moving the cursor to the right.

The key  allows going to the next line.

The key 

or 

allows accessing to the first line.

The key 

or 

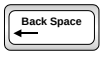
allows accessing to the last line.

The key 

allows inserting the character "**;**" under the cursor and shifting the matrix.

The key 

allows deleting the character pointed by the cursor and shifting the matrix.

The key 

allows deleting the previous character according to the one pointed by the cursor and shifting the formula.

3.4.11.3. Examples of formulas

Practical case:
Let us take for our example a truck of 30 800 kg with a tare of 9 500 kg which is loaded with bags.

We enter the weight of one bag in kg in the simple data 1 (**DS1**) and the GVWR of the truck in the simple data 2 (**DS2**).
We want to calculate the number of bags loaded (**DR1**) and the percentage of the truck filling. (**DR2**)
To execute this calculation, we will use the measured gross weight (**DP1**) and the measured net weight. (**DP3**)

Then we will have to do the following calculations:

DR1 = DP3/DS1 and **DR2 = DP1*100/DS2**

Formulas of the data results:

```
;DR1=DP3/DS1;DR2=DP1*
100;DR2=DR2/DS2;?;;;;
;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;
```

Example of the corresponding printout:

ARPEGE MASTER-K
38 avenue des Freres Montgolfier
BP 186
69 686 Chassieu Cedex

Date : 2010/02/09 Time : 14:08:58
Weighing number : 000011-TM
DSD number : 000006

Vehicle No :1234 MM 98
Bag weight in kg:0030.50
G.V.W.R. in kg : 035000
Quantity loaded : 00000698 bags
Filling ratio : 0000088.0 %

Gross : 30800 kg
PT : 9500 kg
Net : 21300 kg

Comments :
Signature:

Example of other possible formulas:

;DR2=DR1/DS1; ⇒ Possibility to use a data result in the calculation in condition that this data result was previously calculated.

;DR1=-DP1*DS1; ⇒ Possibility to change the sign of a variable.

;DR1=DS1*-2.745; ⇒ Possibility to change the sign of a constant.

;DR1=-DP3; ⇒ Allows putting the value of a variable in a data result by changing the sign.

;DR1=-DR1; ⇒ Allows changing the sign of a data result.

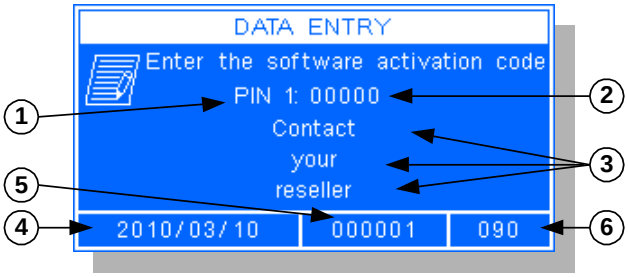
Remarks:

- The value of the data results is formatted according to the position of the decimal point assigned to the data result, the value is approximated to the closer value.
- If during the calculation, you encounter a division by 0 (example: "**DR1=DP1/DS1**" or "**DS1**"=0) the two data results will be forced to zero.

3.4.12. Software activation

If the icon is displayed in the "**Weighing menu**", this means that the software is not unlocked, in the other case this function is reserved of the installer of the material, refer to the latest edition of the user manual "IDL_Gb_IDL 55 software activation".

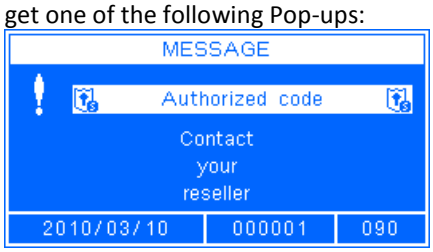
To activate the software, you must launch the function "**Software activation**", you will get the following seizure Pop-up:



Legend:

- 1 ⇒ Indicates which activation code must be seized.
- 2 ⇒ Seizure of the activation code.
- 3 ⇒ Instruction to be followed in case of problems with the activation code.
- 4 ⇒ Date on which the software lock started.
- 5 ⇒ Number for the calculation of the activation code.
- 6 ⇒ Number of the authorized operating dates starting from the unlock software date before the new software lock.

Enter the activation code or codes given by the reseller. According to the entered code if it is correct or not, you will get one of the following Pop-ups:



Correct activation code.

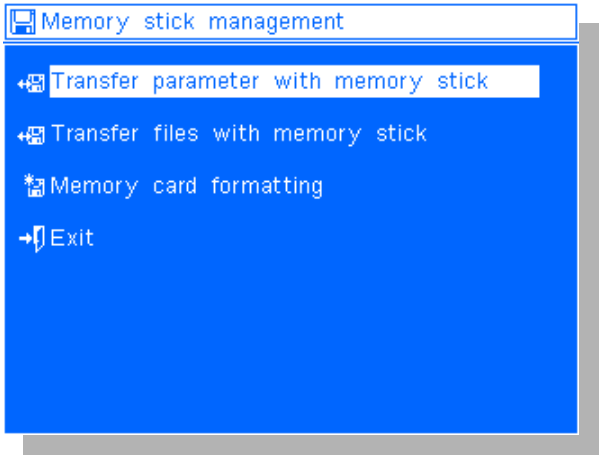
Incorrect activation code.

Once the activation codes are entered, you will return to the "**Parameters**" menu.

However it is possible not to seize all the activation codes by pressing on the key Ech and you will return to the "**Parameters**" menu.

3.4.13. Memory stick management

To access to the memory stick management, you must launch the function "**Memory stick management**", and you will get the following menu:



In this menu, you have the list of the available functions. You may launch a function by pressing on the enter key once this function is pointed. To point a function you must use the up arrow and down arrow keys.

3.4.13.1. Transfer parameters with memory stick (USB memory stick)

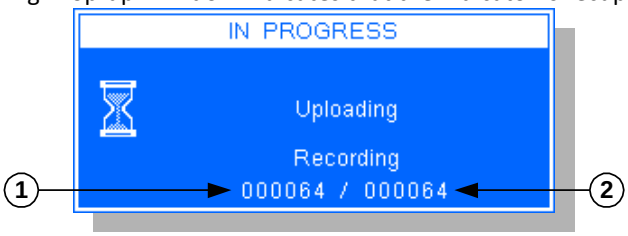
This function allows either sending the indicator parameters to the memory extension ("**Saving**") or recuperating the indicator parameters already saved on the memory extension ("**Uploading**") to save it on the indicator.

3.4.13.1.1. Saving of the parameters on the memory extension

For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Transfer parameter with memory stick**".
Once this function is validated, a transfer confirmation "Pop-up" window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of the parameters or execute a recuperation of the parameters, choose to execute the saving of the parameters and validate.
Then a second confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the saving. (By default the choice is no)
The saving is started. Three "Pop-ups" with a bar graph will be displayed successively during the operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the memory card management.

3.4.13.1.2. Recuperation of the parameters through the memory extension

For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Transfer parameter with memory stick**".
Once this function is validated, a transfer confirmation "Pop-up" window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of the parameters or execute the recuperation of the parameters. Choose the execution of the recuperation of the parameters and validate.
Then a second confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the recuperation. (By default the choice is no)
A "Pop-up" window indicates for a few seconds that the indicator is waiting for the recuperation of the parameters then the following "Pop-up" window indicates that the indicator is recuperating the parameters.



Legend:

- 1 ⇒ Number of received parameters.
- 2 ⇒ Number of added parameters.

Once the recuperation is finished, a "Pop-up" window will be displayed and you will return to the memory card management.

3.4.13.2. Transfer files with memory stick (USB memory stick)

This function allows either sending the files 1 to 5 as well as the fixed tares file to the memory extension ("**Saving**") or recuperating the files 1 to 5 as well as the fixed tares file already saved on the memory extension. ("**Uploading**")

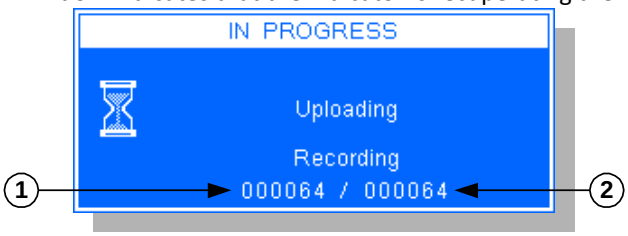
3.4.13.2.1. Saving of the files on the memory extension

For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Transfer parameter with memory stick**".
Once this function is validated, a transfer confirmation "Pop-up" window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of the files or execute the recuperation of the files, choose to execute the saving of the files and validate.
Then a second confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the saving. (By default the choice is no)
The saving is started. Six "Pop-ups" with a bar graph will be displayed successively during the operation.
Once the saving is finished, a "Pop-up" window will be displayed and you will return to the memory card management.

3.4.13.2.2. Recuperation of the files through the memory extension

For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Transfer parameter with memory stick**".

Once this function is validated, a transfer confirmation "Pop-up" window will be displayed in which you may choose if you want to cancel the transfer, execute the saving of the files or execute the recuperation of the files.
Choose the execution of the recuperation of the files and validate.
Then a second confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the recuperation. (By default the choice is no)
A "Pop-up" window indicates for a few seconds that the indicator is waiting for the recuperation of the files then the following "Pop-up" window indicates that the indicator is recuperating the files.



Legend:

- 1 ⇒ Number of records received.
- 2 ⇒ Number of records added to the file.

Once the recuperation is finished, a "Pop-up" window will be displayed and you will return to the memory card management.

3.4.13.3. Memory card formatting

This function allows deleting all the files from the memory card. (Files savings, Parameters savings, …)
For this you must proceed as indicated below.
Get sure that the memory extension is connected properly.
Launch the function "**Memory card formatting**".
Then a confirmation "Pop-up" window will be displayed, choose if yes or no you want to execute the formatting. (By default the choice is no)
The formatting is launched, a "Pop-up" window will be displayed during the operation.
Once the formatting is finished, you will return to the memory card management.

3.4.13.4. Return to the "Parameters" menu

Launch the function "**Exit**" or press on the key ESC to return to the "**Parameters**" menu.

3.4.14. Parameters printing

Launch the function "**Parameters printing**". The printing of the application parameters will be launched. A "Pop-up" window will be displayed during this operation.
Once the printing is finished, you will return to the parameters menu.

3.4.15. Return to the "Management menu"

Launch the function "**Exit**" or press on the key ESC to return to the "**Management menu**".

3.5. Quitting the "Management menu"

Launch the function "**Exit**" or press on the key ESC to return to the "**Weighing Menu**".
If the parameters saved in the EEPROM have been modified, their saving will be launched and a "Pop-up" window will be displayed during this operation.
Once the saving is finished, you will return to the "**Weighing menu**".

ATTENTION:

During the saving, never turn off the indicator otherwise you will lose all the configured parameters in the indicator.

4. THE CONFIGURABLE TICKETS

The standard tickets are always inside the memory of the indicator. They gather all the information collected during the weighing.
If you disable the standard ticket parameter, the system proposes to you the configurable ticket. This allows a personalized paper layout and a choice of the printed data. This ticket is realized by programming with the help of simple commands.

Remark: It is recommended to create the ticket step by step. Configure only a few commands and print the ticket to see the result, and so on.

4.1. The commands for the tickets configuration

There are 13 different commands that allow piloting the printer. A command is always composed of three characters **; 1 letter ;** .The semi-column ';' is the separator that must be added **obligatory** between each two commands. It may also serve to finish a line and be replaced later by a command.
Whereas it is possible to avoid using the semi-column which separates the command and its first data (for the commands having at least one associated data), this syntax type corresponds to the condensed mode.

;A; = Number of line feed.
;B; = Number of spaces.
;C; = Control character.
;E; = System label.
;G; = Passage to bold characters. (No data)
;N; = Number of tickets.
;P; = Passage to standard characters. (No data)
;R; = Repetition of a character or a text.
;S; = Standard printing call.
;T; = Text.
;U; = Text centered on a data size.
;V; = Text aligned on a maximum size.
;?; = End of ticket. (No data)

The syntax must be :

The command **;A;** always followed by 2 digits (number of line feed) i.e.: **;A;02;** or **;A;2;**
The command **;B;** always followed by 2 digits (number of spaces) i.e.: **;B;09;** or **;B;9;**
The command **;C;** always followed by 2 characters (value in hexadecimal) i.e.: **;C;1B;**
The command **;E;** always followed by 3 characters (name of one of the system's labels) i.e.: **;E;RS1;**
The command **;G;** always alone
The command **;N;** always followed by 1 digit (number of tickets) and must be at the beginning of the matrix. i.e.: **;N;2;**
The command **;P;** always alone
The command **;R;** always followed by 1 or 2 digits (number of repetitions) and by the text to be printed (variable length) i.e.: **;R;10;*;** or **;R;5;**;**;**
The command **;S;** always alone i.e.: **;S;**
The command **;T;** always followed by the text to be printed (variable length) i.e.: **;T; HERE IS THE TEXT;**
The command **;U;** always followed by 1 or 2 digits (centering size) and by the text to be printed (variable length) i.e.: **;U;20; HERE IS THE TEXT;**
The command **;V;** always followed by 1 or 2 digits (alignment size) and by the text to be printed (variable length) i.e.: **;V;10; HERE IS THE TEXT;**
The command **;?;** always alone

4.2. Operation of the keys for the configurable tickets editor

The key 

allows quitting the configurable tickets editor and returning to the configurable tickets menu.

The key  allows returning to the beginning of the line.

The key  allows moving the cursor to the left.

The key  allows going to the previous line.

The key  allows moving the cursor to the right.

The key  allows going to the next line.

The key 

allows accessing to the 10th previous line.

The key 

allows accessing to the 10th next line.

The key 

allows accessing to the first line. (Display of the first 10 lines)

The key 

allows accessing to the last line. (Display of the last 10 lines)

The key 

allows inserting the character "**;**" under the cursor and shifting the matrix.

The key 

allows deleting the character pointed by the cursor and shifting the matrix.

The key 

allows deleting the previous character according to the one pointed by the cursor and shifting the matrix.

4.3. The system labels

These labels allow the printing of data from the system's memory.

RS1 : 1st line of the company name. (20 characters)
RS2 : 2nd line of the company name. (39 characters)
RS3 : 3rd line of the company name. (39 characters)
RS4 : 4th line of the company name. (39 characters)
FT1 : 1st line of the end of ticket. (39 characters)
FT2 : 2nd line of the end of ticket. (39 characters)
DP1 : Gross weight data. (5 digits + weight unit and decimal point)
DP2 : Tare weight data. (5 digits + weight unit and decimal point)
DP3 : Net weight data. (5 digits + weight unit and decimal point)

Remark:
DP1 and DP2 can be inverted during a double weighing!

DP4 : Gross weight data. (5 digits + weight unit and decimal point)
DP5 : Tare weight data. (5 digits + weight unit and decimal point)
DP6 : Net weight data. (5 digits + weight unit and decimal point)

Remark:
DP4 and DP5 not inverted, to use for the output tickets.

EP1 : "GROSS" text aligned on 8 characters. (Filled with spaces)
EP2 : "TARE" text or "PT" aligned on 8 characters. (Filled with spaces)
EP3 : "NET" text aligned on 8 characters. (Filled with spaces)
DNP : Weighing number data, DSD number. (6 digits)
DNT : Ticket number data. (6 digits)
DTP : Weighing type data. (2 characters)
DDA : Data of the memorized date of the weighing in progress. (10 characters)
DHE : Data of the memorized time of the weighing in progress. (8 characters)
DDC : Data of the actual date. (10 characters)
DHC : Data of the actual time. (8 characters)
DED : Date data of the input weighing. (10 characters)
DEH : Time data of the input weighing. (8 characters)

DS1 : Code of the simple data 1. (6 digits)
DS2 : Code of the simple data 2. (6 digits)
DS3 : Code of the simple data 3. (16 characters)
DS4 : Code of the simple data 4. (16 characters)
ED1 : Name of the simple data 1. (16 characters)
ED2 : Name of the simple data 2. (16 characters)
ED3 : Name of the simple data 3. (16 characters)
ED4 : Name of the simple data 4. (16 characters)
DIT : Vehicle code, identifier. (10 characters)
EIT : Input/output/tare identifier name. (16 characters)
EF1 : Name of the file 1. (16 characters)
D11 : Code of the file 1. (6 digits)
D12 : Label of the file 1. (21 characters)
EF2 : Name of the file 2. (16 characters)
D21 : Code of the file 2. (3 digits)
D22 : Label of the file 2. (21 characters)
EF3 : Name of the file 3. (16 characters)
D31 : Code of the file 3. (3 digits)
D32 : Label of the file 3. (21 characters)
EF4 : Name of the file 4. (16 characters)
D41 : Code of the file 4. (3 digits)
D42 : Label of the file 4. (21 characters)
EF5 : Name of the file 5. (16 characters)
D51 : Code of the file 5. (3 digits)
D52 : Label of the file 5. (21 characters)
DNO : Operator number data. (2 digits)
DLO : Operator label. (16 characters)
ER1 : Name of the result data 1. (16 characters)
DR1 : Signed value of the result data 1. (8 digits)
Dr1 : Absolute value of the result data 1. (8 digits)
UR1 : Unit of the result data 1. (16 characters)
ER2 : Name of the result data 2. (16 characters)
DR2 : Signed value of the result data 2. (8 digits)
Dr2 : Absolute value of the result data 2. (8 digits)
UR2 : Unit of the result data 2. (16 characters)

4.4. Example of a matrix with its printing

Standard matrix:

```
;G;E;RS1;P;A;1;E;RS2;
A;1;E;RS3;A;1;E;RS4;A
;2;T;Date : ;E;DDA;T;
 Time  : ;E;DHE;A;01;
T;DSD No    :;E;DNP ;
A;01;G;T;Net Weight:;
E;DP3;P;A;02;R;40;-;A
;1;T;- SEE YOU SOON -
;A;1;U;40;- SEE YOU S
OON -;A;1;V;11;- SEE
YOU SOON -;A;1;?;;;;;
;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;
        ......
;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;
```

Condensed matrix:

```
;G;ERS1;P;A1;ERS2;A1;
ERS3;A1;ERS4;A2;TDate
 : ;EDDA;TTime  : ;ED
HE;A01;TDSD No    :;E
DNP ;A01;G;TNet Weight
: ;EDP3;P;A02;R40;-;A
1;T- SEE YOU SOON -;A
1;U40;- SEE YOU SOON
-;A1;V11;- SEE YOU SO
ON -;A;1;?;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;
        ......
;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;
```

Its corresponding printing:

```
ARPEGE MASTER-K
38 avenue des Frères Montgolfier
BP 186
69 686 Chassieu Cedex

Date : 06/01/2009 Time  : 11:13:21
DSD No    :000006
Net Weight:36300 kg

----------------------------------------
- SEE YOU SOON -
              - SEE YOU SOON -
- SEE YOU S
```

5. APPENDICES

5.1. External communication link

5.1.1. JBUS/MODBUS protocol

An external system can communicate with the indicator by serial link. It can control the process or collect weight data in real time. This is transparent to the user as this function is run in multi-tasking by the indicator. This functionality is activated if the "**DRIVER**" setting for **COM1** or **COM2** is "**20**", see "*3.4.6. COM1/COM2/LPT peripherals*".

For more information on the protocol refer to the manual "**JBUS PROTOCOL IMPLEMENTATION ON INDUSTRY SOFTWARE INDICATOR**".

5.1.2. Fieldbus: Profibus-DP, DeviceNet, Ethernet Modbus TCP, ProfiNet, EtherNet/IP

An external system can communicate with the indicator by fieldbus link. It can control the process or collect weight data in real time. This is transparent to the user as this function is run in multi-tasking by the indicator.

This functionality is activated if the "**CanMK-FB gateway**" setting isn't "**No**" ("**CanMK-FB**" gateway using an ANYBUS CompactCOM fieldbus device Profibus-DP, DeviceNet, Ethernet Modbus TCP, ProfiNet or EtherNet/IP, see "*3.4.7. CAN bus/Options peripherals*") or if the settings for **COM2** are "**20**" for "**DRIVER**" and "**5**" for "**TYPE**". (ETHERNET XPORT option board, see "*3.4.6. COM1/COM2/LPT peripherals*")

For more information on the "**CanMK-FB**" gateway and its ANYBUS CompactCOM fieldbus devices refer to the manual "**APPLICATION NOTE FILEDBUS ON CanMK-FB GATEWAY – ANYBUS CompactCOM DEVICES**".
For more information on the Ethernet Modbus TCP XPORT option board refer to the manual "**APPPLICATION NOTE ETHERNET MODBUS/TCP AMK BOARD (XPort) FOR THE MAGIC AND IDe INDICATORS**".

5.1.2.1. Data issued from the indicator

The frame emitted by the indicator allows to the external system (PLC, PC) to read the supervision and weighing data.

Designation	Size (bytes)	Encoding	Offset (bytes)
Life counter. (See *5.1.2.1.1.*)	1	Byte	**0**
Image of Inputs/Outputs. (See *5.1.2.1.2.*)	1	Bits	**1**
State response. (See *5.1.2.1.3.*)	2	-	**2**
Data response. (See *5.1.2.1.3.*)	4	Signed long integer	**4**
Gross. (See *5.1.2.1.4.*)	4	Signed long integer	**8**
Tare. (See *5.1.2.1.4.*)	4	Signed long integer	**12**
Net. (See *5.1.2.1.4.*)	4	Signed long integer	**16**
Channel state. (See *5.1.2.1.5.*)	2	Signed long integer	**20**

Remarks:

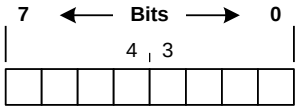
- The coma of weights is coded in the field "**Channel state**", see *5.1.2.1.5*.
- Frame length: 11 word / 22 bytes.
- For Ethernet Modbus TCP reading data at the address **0000 H**.

5.1.2.1.1. Definition of "Life counter"

This field is incremented from **00** H to **FF** H at each new transmission.

5.1.2.1.2. Definition of "Image of Inputs/Outputs"

This is the image of the Inputs/Outputs status of the "**CanMK-4I4O gateway**".



- Inputs status bits:
  - b0 ⇒ State of input I1.
  - b1 ⇒ State of input I2.
  - b2 ⇒ State of input I3.
  - b3 ⇒ State of input I4.

- Outputs status bits:
  - b4 ⇒ State of output O1.
  - b5 ⇒ State of output O2.
  - b6 ⇒ State of output O3.
  - b7 ⇒ State of output O4.

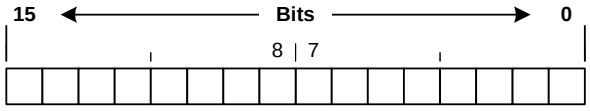
5.1.2.1.3. Definition of "State response" and "Data response"

The field "**State response**" and "**Data response**" are the command results previously sending to the indicator, for more details refer to "*5.1.2.3. Command launch*" and "*5.1.2.2.2. List of commands*".

5.1.2.1.4. Definition of "Gross" / "Tare" / "Net"

The gross / tare / net weights are transmitted in integer of 32 bits signed, the weights' comma is coded in the field "**Channel state**", see *5.1.2.1.5*.

5.1.2.1.5. Definition of "Channel state"



- Unused bits: These bits are always 0.
  - b0 to b7.

- Decimal point position: Number of digits after the decimal point for weights.
  - b8 to b9.
    - **0** ⇒ No digit after the decimal point.
    - **1** ⇒ One digit after the decimal point.
    - **2** ⇒ Two digits after the decimal point.
    - **3** ⇒ Three digits after the decimal point.

- Status bits:
  - b10 ⇒ This bit indicates if the displayed weight is stable or not stable, identical to ~ indicator.
    - **0** ⇒ Unstable displayed weight.
    - 1 ⇒ Stable displayed weight. (According to the criteria defined during the instrument calibration)
  - b11 ⇒ This bit indicates whether the zero is correct (at 1/4 scale division), identical to →0← indicator.
    - **0** ⇒ Zero not correct.
    - 1 ⇒ Zero correct
  - b12 ⇒ If this bit is set to 1, the weight is '**Out of scale +**'. (⚠ This is a fault!)
  - b13 ⇒ If this bit is set to 1, the weight is '**Out of scale -**'. (⚠ This is a fault!)
  - b14 ⇒ If this bit is set to 1, the converter is out of range. (⚠ This is a fault!)
  - b15 ⇒ Not used, always 1.

5.1.2.2. Data received by the indicator

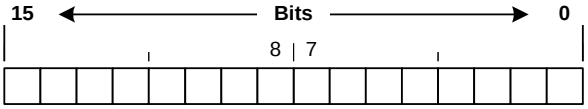
The frame received by the indicator allows to the external system (PLC, PC) to control the process.

Designation	Size (bytes)	Encoding	Offset (bytes)
Outputs Forcing. (See *5.1.2.2.1.*)	2	-	**0**
Command code. (See *5.1.2.2.2.*)	2	Integer	**2**
Data command. (See *5.1.2.2.2.*)	4	Long integer	**4**

Remarks:

- Frame length: 4 word / 8 bytes.
- For Ethernet Modbus TCP reading data at the address **0400 H**.

5.1.2.2.1. Definition of "Outputs Forcing"



- Outputs forcing bits: (*Used only if the parameter "**TYPE**" of "**CanMK-4I4O gateway**" is set to "**1**", see "3.4.7. CAN bus/Options peripherals*")
  - b0 ⇒ Forcing output O1.
  - b1 ⇒ Forcing output O2.
  - b2 ⇒ Forcing output O3.
  - b3 ⇒ Forcing output O4.

- Unused bits: These bits are always left at 0.
  - b4 to b15.

5.1.2.2.2. List of commands

Value		Description
Hex.	Decimal	
0000 H	**0 d**	No command / Initialise command.
0001 H	**1 d**	Semi-automatic zero command.
0002 H	**2 d**	Semi-automatic tare command.
0003 H	**3 d**	Programmable tare command. (PT)
0004 H	**4 d**	Cancelation of the tare command.
0005 H	**5 d**	Printing and storage of the weight in the DSD command.
0006 H	**6 d**	Reading of the DSD number command.

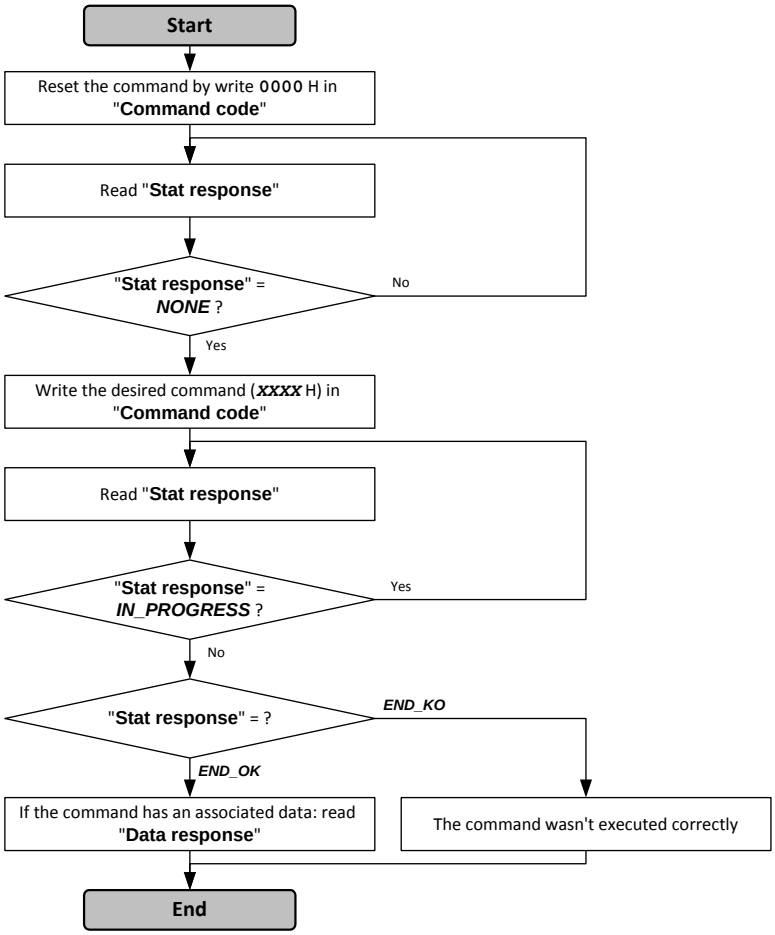
Remarks:

- The command "**3**" requires to update the "**Data command**" field with the desired programmable tare value.
- The command "**5**" returns the DSD number in the "**Data response**" and the gross / tare / net weights are frozen during 1 second to be sure that the weights printed / stored in the DSD are the same that those received by the external system.
- The command "**6**" returns the DSD number in the "**Data response**".

5.1.2.3. Command launch

It's possible to send commands to the indicator by writing in the "**Data command**" field.

To be sure of the validity and the correct execution of command, it's important to manipulate it as described in the flow below.



Value of "**State response**":

- NONE = **00 H**,
- END_OK = **01 H**,
- END_KO = **02 H**,
- IN_PROGRESS = **03 H**.

"**State response**" and "**Data response**" are read in the frame emitted by the indicator.

5.1.2.4. Command launch examples

5.1.2.4.1. Semi-automatic tare command: 0002H

External system frame to be sent to the indicator:

Output forcing	Command code	Data command
00 H 00 H	00 H 02 H	00 H 00 H 00 H 00 H
2 bytes	2 bytes	4 bytes

5.1.2.4.2. Programmable tare command: 0003H

External system frame to be sent to the indicator:

Output forcing	Command code	Data command
00 H 00 H	00 H 03 H	00 H 00 H 03 H E8 H
0 (d)	3 (d)	1 000 (d)
2 bytes	2 bytes	4 bytes

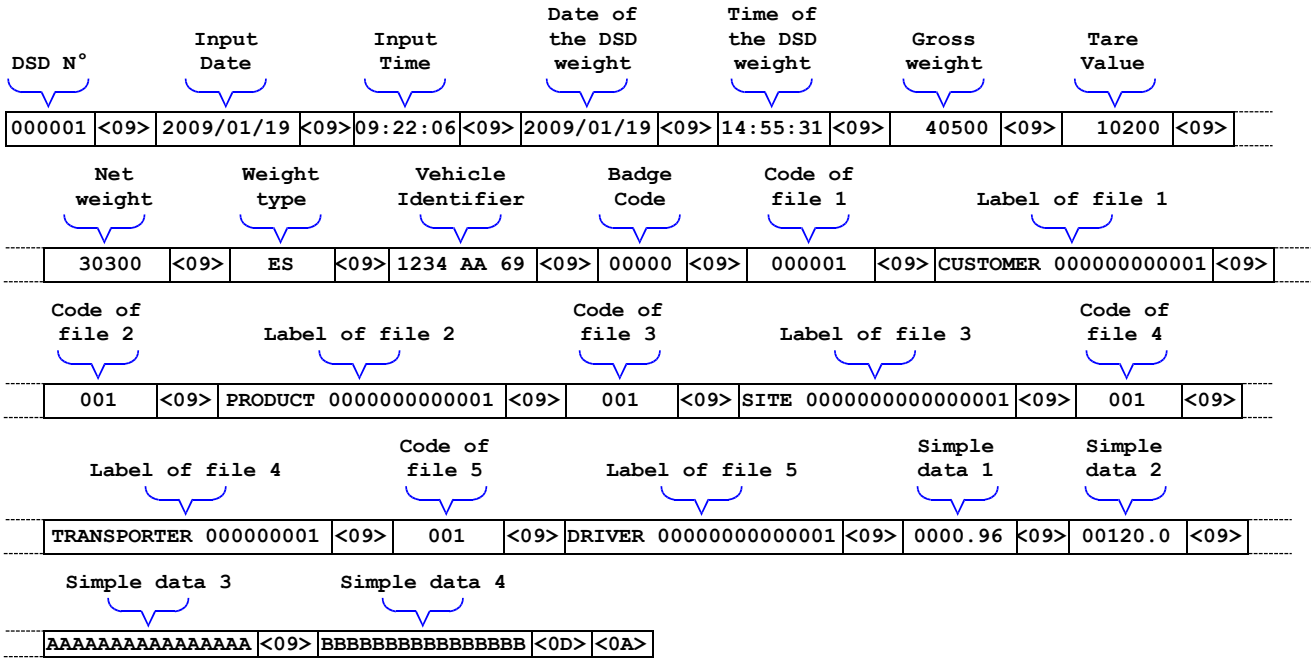
The programmable tare value is **000003E8** H or 1 000 decimal.
If the channel is set:

- in kg with 2 digits after the decimal point this tare will be translated by 10.00kg,
- in kg with 3 digits after the decimal point this tare will be translated by 1.000kg,
- …

5.1.3. The stream computer protocol (Stream computer)

5.1.3.1. Computer stream on communication port

If you have enabled the "stream computer" protocol on one of the communication channels (**COM1** or **COM2**), for each weighing, the following frame will be sent:



Legend:

- The different fields of the example are coded with the ASCII data exportation mode.
- **<09>** ⇒ Field separator. (09 H, 09 d)
- **<0D><0A>** ⇒ CR/LF. (0D H, 13 d / 0A H, 10 d)
- The various weighing types :
  - ES = Input/Output weighing (Weigh in / Weigh out),
  - TF = Tare file weighing,
  - TM = Gross/Tare/Net weighing.
- If it is not an input /output weighing, the date and time of the output correspond to the date and time of the DSD weight.

Once the frame is sent, the indicator will wait for an acknowledge of the command (**<06>** ⇒ **ACK**) from the targeted system.
If the targeted system did not acknowledge the frame, it will be automatically repeated each 6 seconds, the other frames supposed to be emitted, will be pending with a limit of 120 frames.

If you have 120 stream computer frames pending, it will become impossible to save a new weight in the buffer memory for the stream computer, a "Pop-up" error message with the error code "P2" will appear.
Beforehand, a "Pop-up" error message with the error code "P1" appears indicating that there remains less than ten savings possible in the buffer memory for the stream computer.

The number of frames present in the buffer memory is given in the "Weighing Menu" near the DSD number of the forthcoming weight, with the following display: :001 . (Example of a frame in the buffer memory)

5.1.3.2. Computer stream on the memory board option

If the computer stream protocol is validated on the memory board option (**EXT.MEM**), a file "**JPE_***mmdd***.TXT**" (with "*mm*" for the actual month and "*dd*" for the actual day) will be created each day on the memory board. The file is a text file (.TXT), it is directly exploitable by a simple text treatment (Ex: Bloc-notes), pay attention to the exportation mode of the selected data.
For each weighing, you will have the frame, previously described, added to the file. (Refer to "*5.1.3.1. Computer stream on communication port*")

5.2. Which printing mode to choose

The choice of the printing mode depends of the used printer and of the language in which the indicator evolves:

- ✓ **Unicode :**

This printing mode suits for all the languages.
The printer must be capable to operate in Unicode.

- ✓ **ASCII :**

This printing mode suits specially for the English, French, German and Spanish languages, but pay attention, the characters with accents will be printed without their accents and the special characters will be replaced by empty spaces.
The printer must be capable to operate in ASCII.

- ✓ **ISO8859-15 :**

This printing mode suits for Latin languages. (English, French, German and Spanish)
The printer must be configured in ISO8859-15.

- ✓ **EPSON PCAR864 :**

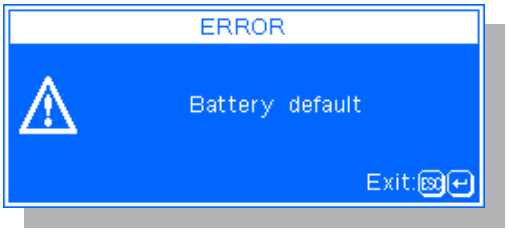
This printing mode suits for the Arabic language.
You must have an EPSON printer configured in PCAR864 mode or a compatible printer having the PCAR864 mode. (Example of printers: EPSON LX300, EPSON LQ300)

- ✓ **ESC/P2 (FARSI) :**

This printing mode suits for the Farsi language.
You must have a printer compatible with the protocol ESC/P2. (Example of printers: EPSON LQ300)
At the start up, the indicator initializes the printer to print the Farsi language, if the configuration took place properly, the printer sends an audible beep. If the configuration did not take place properly (no audible beep from the printer, or printer turned off during the initialization) or if the printer was turned on, you may restart the initialization of the printer by pressing simultaneously on the keys Alt Gr and F11 when you are in the "**Weighing Menu**".
The initialization of the printer is also restarted at each time you leave the parameters menu of the indicator.

5.3. Error messages in the "Pop-up" windows

- Error messages indicating an operating default in the application, they appear as the window shown below during the operation at the moment of the error detection, the error message will appear instead of the message "**Battery default**":



The following chart lists the error messages:

Error message	Designation
Battery default	Error message indicating a battery default, it appears on the start-up of the indicator.
Weight default	The weight is defective (Off range, off scale, …), the required operation is impossible.
Printing	The printer link is defective (No more papers, printer turned off, printer link disconnected, …), the required operation is impossible.
Nonexisting file	The file was not found, the required operation is impossible.
File full	The file is full, it is impossible to add a new record.
Input weight already done	The identifier already exists in the input weighing file, the input weighing cannot be done with this identifier.
Input weight not available	The identifier does not exist in the input weighing file, the output weighing cannot be done with this identifier.
Fixed tare not available	The identifier does not exist in the fixed tares file, the weighing with the fixed tares file cannot be done.
GVWR **35000 kg**	The present gross weight exceeds the GVWR value of the vehicle listed in the fixed tares file, the weighing cannot be done. The GVWR value is displayed under the error message.
No session in progress	There is no session opened, thus the required function is not authorized.
Denied code	The seized code is incorrect.

- Error codes indicating an operating default in the application, they appear as the window shown below during the operation at the moment of the error detection, the error code will appear instead of the code "**??**":

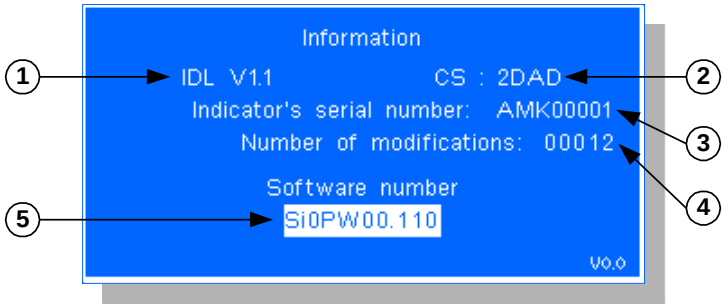
The following chart lists the error codes:

Error code '??'	Designation
CA	The memory card is locked. (Lock button on the side of the memory card)
CB	The memory card is not detected.
CE	There is a communication problem with the memory card.
CF	The memory card is not formatted, you must empty it.
CL	There are no savings of the metrological parameters on the memory card.
CM	There are no savings of the application parameters on the memory card.
CN	There are no savings of files on the memory card.
CO	The data of the memory card is not compatible with the software.
CP	Read/Write not authorized. (Protected data)
CQ	The memory card is full.
C*x*	There is a communication problem with the memory card. ("***x***" can take any value)
DC	The DSD file is corrupted, it is going to be re-initialized. (CRC error)
D?	There is a problem with the DSD file.
P1	The memory dedicated for the storage of the stream computer frames is almost full. (There remains less than ten records possible)
P2	The memory dedicated for the storage of the stream computer frames is full. (The executed weights will not be recuperated by the stream computer link)
F1	Error during the transfer with the internal Flash memory.
T1	Error during the restoration through the memory card, the file is faulty.
Sxxx	Syntax error in the formula DR1/DR2 seized at the position "**xxx**".
ED	Data error, The values of the seized data are incorrect.

5.4. Display of the software number / Indicator's information

Press on the key 

when you are in the "**Weighing menu**", the following window will be displayed during 5 seconds.



Legend:

- 1 ⇒ Core Version: "**IDL V1.1**".
- 2 ⇒ CRC of the core: "**2DAD**".
- 3 ⇒ Serial number of the indicator.
- 4 ⇒ Number of the saved manipulations of the EEPROM metrological part.
- 5 ⇒ Software number of the application.

5.5. Troubleshooting

- The indicator displays the battery default error message on the start-up:

Verify the voltage value of the indicator's battery, it must be greater than 2,9 V_{DC}, otherwise, the battery must be replaced.

If your problems persist, contact your nearest reseller or the technical support of the ARPEGE MASTER-K Company.

NOTES :