

SET UP AND USER MANUAL OF THE IDE 500 INDICATOR

WEIGH BRIDGE / SCALE SOFTWARE



Software N°	Manual N°	Edition
Be5PB06.05E	IDE_Gb_Pont Bascule 500_rev05.DOC	05



ARPEGE

AIMO



**L'INFORMATIQUE
PONDERALE**



**PESAGE
PROMOTION**

Siège et usine : 38, avenue des Frères Montgolfier - BP 186 - 69686 Chassieu Cedex - France

Tél. : 33 (0)4 72 22 92 22 - Fax : 33 (0)4 78 90 84 16 - www.masterk.com

S.A. CAPITAL DE 1 026 432 € - 352 854 053 RCS LYON - CODE APE 292 J - N° IDENTIFICATION TVA FR 07 352 854 053

SET UP AND USER MANUAL OF THE IDE 500 INDICATOR WEIGH BRIDGE / SCALE SOFTWARE

Date	Edition Number	Subject of the modification
14/06/2005	00	Original.
26/09/2005	01	Update of the software version 051
29/09/2005	02	Update of the manual
28/11/2005	03	Add of the communication's driver n°3 = > Modem, and for the DSD change of the movement keys = >  or  and  or  .
5/09/2006	04	Addition of new I/O operating mode.
3/02/2009	05	Addition of the SD Card FAT16 (<i>Page 31</i>)

SUMMARY

1. PRESENTATION.	6
1.1. Equipment.	6
1.1.1. Technical characteristics.	6
1.1.2. The peripherals.	6
1.1.3. The options.	6
1.1.4. Display and warning lights.	7
1.1.5. The keypad and keyboard of the IDe 500.	8
1.1.6. Adjustment of the display's contrast.	9
1.2. The software.	10
2. WEIGHING MENU.	11
2.1. Input weight : 	11
2.2. Output weight : 	11
2.3. Weight with a tare file : 	11
2.4. Gross/Tare/Net Weight : 	12
2.5. Management of the input weights file : 	12
2.5.1. Printing of the file : 	12
2.5.2. Erase of a line of the file : 	13
2.5.3. Erasing of a file : 	13
2.6. DSD management : 	14
2.6.1. Search of a weight in the DSD : 	14
2.6.2. Printing of the DSD : 	16
2.6.3. Transmission of the DSD from the indicator to a PC : 	16
2.7. Capture of the files and simple data in weighing mode.	17
2.8. Example of a printing of a standard ticket.	19
3. MANAGEMENT MENU / PARAMETERIZATION.	20
3.1. Weighing Number / date: 	20

3.2. Files Handling :		21
3.2.1. Print File :		21
3.2.2. File modification :		22
3.2.2.1 Modification or creation of a line of the file No 1 : CLIENT.		23
3.2.2.2 Modification or creation of a line of the file No 2 t 5.		23
3.2.2.3 Modification or creation of a line of the file FIXED TARES.		23
3.2.3. REGISTER ERASING :		23
3.2.4. Erasing of a File :		24
3.2.5. Transmission of the file from the indicator to a PC :		24
3.2.6. Reception of a file from a PC toward an indicator :		24
3.2.7. Saving of the file of the IDe 500 in the extension memory board :		25
3.2.8. File recuperation from the extension memory board to the IDe 500 :		25
3.3. Parameterization :		26
3.3.1. Begin / end of docket.		26
3.3.2. Operating mode.		26
3.3.2.1. I/O operating mode.		26
3.3.2.2. Erase of the tare.		27
3.3.2.3. Minimum Threshold.		27
3.3.2.4. PC keyboard type.		27
3.3.3. Name of files and data.		27
3.3.4. Validation of files and data.		27
3.3.5. Parameterization of the tickets.		28
3.3.6. Parameters of the peripherals COM1/COM2/LPT.		29
3.3.7. Parameters of the peripherals MK CAN/USB/OPTION.		30
3.3.8. Saving and/or Recuperation of the parameters on the SD CARD.		31
3.3.9. Quit the parameterization.		31
3.4. Totalizing.		32

3.4.1.	Printing of the totals of file 1.		32
3.4.2.	Printing of the totals of file 2.		33
3.4.3.	Printing of the totals of file 3.		33
4.	<i>CONFIGURABLE TICKETS</i>		34
3.4.4.	The commands for the configurable tickets.		34
3.4.5.	The special keys for the configurable ticket editor.		34
3.4.6.	The system's labels.		35
3.4.7.	Example of a matrix with its printing.		36
5.	<i>THE ERROR MESSAGES OF THE OPERATOR GUIDE.</i>		37

1. PRESENTATION.

1.1. Equipment.

1.1.1. Technical characteristics.

Maximum number of scale divisions (legal for trade)	: 6000.
Sensitivity	: 0.75 μ v.
Power supply of the load cell	: 7.5V 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.

Power supply 230 V / 50 Hz or 60 Hz + earth < 5 ohms.

DC power supply 12V. (or 24V in option)

Power consumption : 15 to 25VA max, according to the configuration.

Internal clock and memory backed up by a battery.

LCD screen 240 pixels by 128 pixels composed of the weight on 6 digits of 15 mm and of an operator guide.

Keypad : - 4 metrological Keys,
- Pseudo mouse with 4 arrows and a validation Key,
- PC keyboard.

1.1.2. The peripherals.

In standard version the IDe 500 indicator disposes of :

* 2 serial links :

COM1 : RS232 and/or RS485 2 wires. (short distance link : 10 meters max.)

COM2 : Passive current loop, or in option RS232, RS485, active or passive current loop. (long distance link)

* A parallel interface:

LPT : Printer. (Short distance link : 3 meters max.)

* An input for the analog load cells:

M1 : 6 wires analog load cell(s). (Long distance link : 150 meters max.)



Remark: Only one cable should be connected to M1. The connection of the load cells in parallel to each other is done separately in a junction box.

* A CAN interface : (For indicators in digital version or in option for the indicators in analog version)

MASTER CAN : Digital load cell(s) / Terminals. (Long distance link : 600 meters max.)

1.1.3. The options.

* 3 types of printers are available :

- ILA 800 : MASTER-K listing printer 80 columns (1 ticket model)
- ILA410 : MASTER-K listing printer 80 columns (4 ticket models)
- IBA40 : MASTER-K tape printer 40 columns (2 ticket models)

* 2 types of weighing repeaters may be connected :

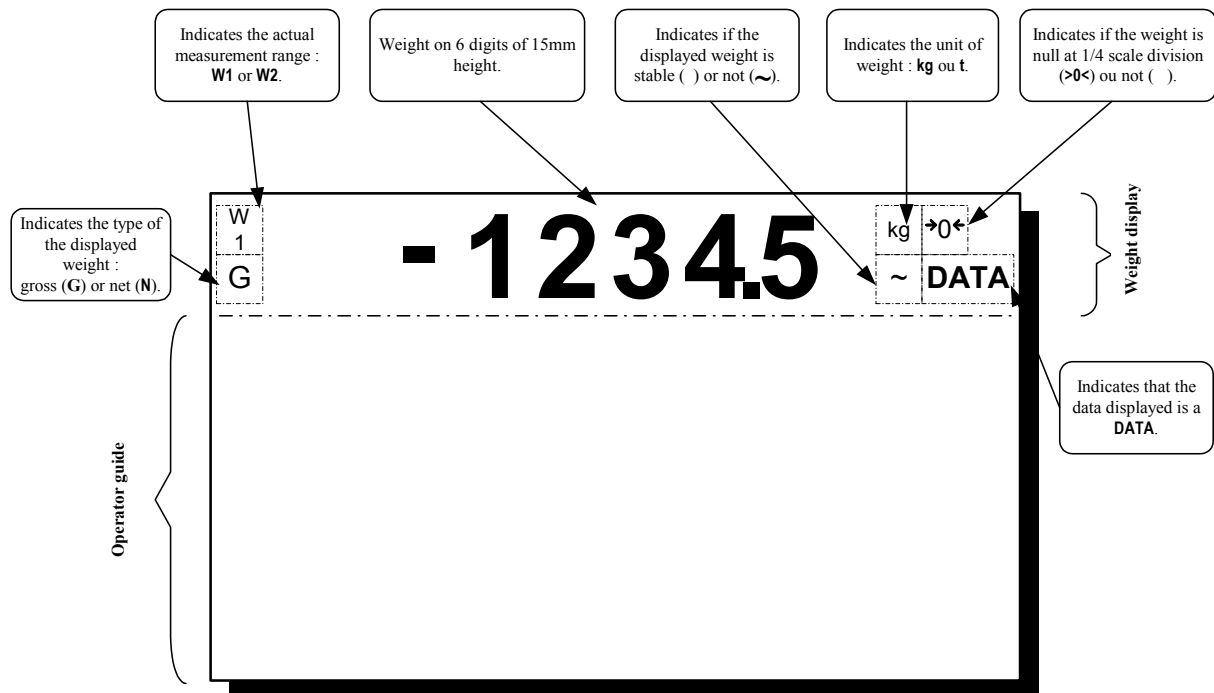
- RP 15 : Weight repeater of a 15 mm display
- RP 50 : Weight repeater of a 50 mm display

* A memory card reader "**EXT. MEM.**" + the memory card of 64 Mbytes. It allows the saving of the adjustment parameters (metrological parameters, functional parameters) as well as the application parameters; it also allows increasing the size of the DSD.

1.1.4. Display and warning lights.

The IDe 500 disposes of an LCD graphic display for the weight and the operator guide offering to the operator a big flexibility of the system use.

The weight present with its states (Gross / Net, unit, zero, ...) on the scale is displayed in real time at the upper part of the LCD screen. The information of the operator guide facilitating the use of the indicator are displayed on the lower part of the LCD screen.



1.1.5. The keypad and keyboard of the IDe 500.

The IDe 500 is equipped by a pseudo mouse with 4 arrows, a validation key, 4 metrological keys and a **standard PC keyboard** allowing a simple and fast utilization.

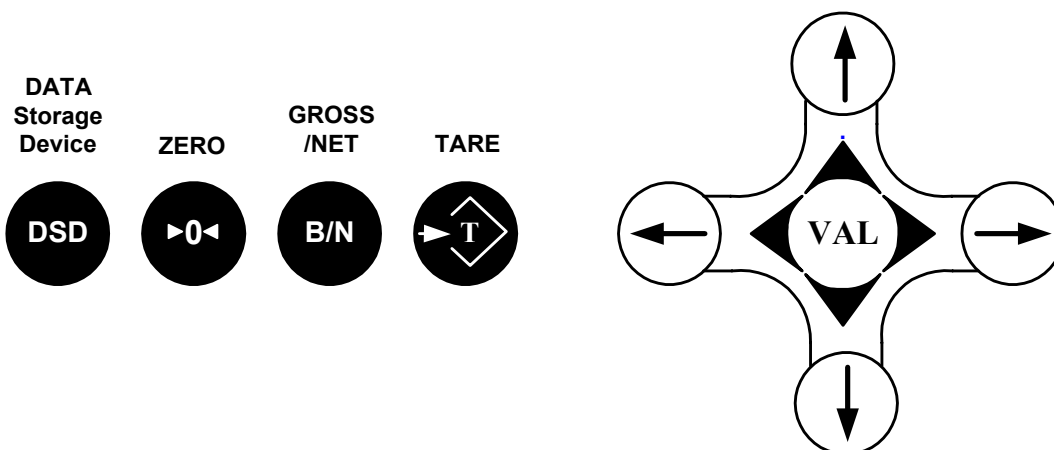


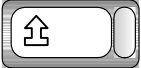
IMPORTANT : For a good functioning of the Keyboard.

At the start up, You must imperatively have the leds of the keyboard in the following states :

- Capital letter led ON, ("Caps lock" key)
- Digital lock OFF
- All the other leds existing on the keyboard must **IMPERATIVELY OFF**. (Function deactivated)

Pseudo souris et touches métrologiques



-  : Management of the DSD. (Data Storage Device)
-  &  : Implementation of the semi automatic zero, the semi automatic zero cancels the tare.
-  &  : Temporary recall of the GROSS weight value when a tare has been entered.
-  &  : Tare of a weight present on the scale.
-  : Validation of a data.
-  : Weighing of a vehicle in "entry" (1st weigh). This key has many functionalities according to the menu in progress.
-  : Weighing of a vehicle in "exit" (2nd weigh). This key has many functionalities according to the menu in progress.
-  : Weighing of a vehicle with a tare registered. This key has many functionalities according to the menu in progress.
-  : Print of a Gross/Tare/Net ticket. This key has many functionalities according to the menu in progress.
-  : Entry of a keyboard tare. This key is only active in the weighing menu.
-  : Escape key.
-  or  : Validation keys and passage to the next entry.
-  : Allows going back to the previous entry.
-  : Allows erasing and reinitializing the entry in progress
-  : « Caps lock » allows the passage from uppercase to lowercase letters and vice versa.

1.1.6. Adjustment of the display's contrast.

When we are in the weighing menu, it is possible to adjust the contrast of the display, the key  increases the contrast and the key  decreases it.

1.2. The software.

The IDe 500 indicator, equipped with weighbridge software, was conceived to offer weighing functions on scales or weigh bridges.

The scale/Weigh bridge software disposes of :

- 7 files,
- 2 digital references of 6 digits,
- 2 alphanumerical references of 16 characters,
- 4 weighing modes :
 - Manual tare,
 - Semi-automatic tare,
 - Tare file,
 - Double weighing, (Input/Output)
- Standard or programmed layout of the tickets,
- Addition on the file 1, (Simple addition, cross file 1 / file 2, cross file 1 / file 3, and list of the weights)
- Addition on the file 2, (Simple Addition, cross file 2 / file 3)
- Addition on the file 3, (Simple Addition, cross file 3 / file 2)
- Addition of a 4I/4O board (in option)
- A DSD memory of the last 28 000 weights. (In option, with the external memory extension, DSD of 999 999 weights)

The 6 files :

File n° 1 :

Name : 16 characters maximum.
 Size : 845 registers.
 Structure : - Calling Code on 6 digits.
 - Label on 21 characters.

File n° 3 :

Name : 16 characters maximum.
 Size : 354 registers.
 Structure : - Calling Code on 3 digits.
 - Label on 21 characters.

File n° 5:

Name : 16 characters maximum..
 Size : 177 registers.
 Structure : - Calling Code on 3 digits
 - Label on 21 characters.

DSD file :

Size : 28 000 weights.
 Structure : - DSD N° 6 digits.
 - Date 6 digits
 - Time 4 digits.
 - Vehicle number 10 characters.
 - Code file 1 on 6 digits.
 - Code file 2 on 3 digits.
 - Code file 3 on 3 digits.
 - Code file 4 on 3 digits.
 - Simple data value n°1.
 - Gross 5 digits.
 - Tare 5 digits.
 - Net 5 digits.

File n° 2 :

Name : 16 characters maximum.
 Size : 354 registers.
 Structure : - Calling Code on 3 digits.
 - Label on 21 characters.

File n° 4 :

Name : 16 characters maximum.
 Size : 177 registers..
 Structure : - Calling Code on 3 digits..
 - Label on 21 characters.

Fixed tares file :

Size : 406 registers.
 Structure : - Reference on 10 characters.
 - Tare value on 5 digits.
 - Code file n°1 on 6 digits.
 - Code file n°2 on 3 digits.
 - Code file n°3 on 3 digits.

Mobile tares file (vehicles in and not out yet)

Not accessible during parameterization, this
 File is validated in case the double weighing
 mode has been selected.
 Size : 66 Registers.

2. WEIGHING MENU.

Remark : This menu is "dynamic", according to the parameterization of the application; it is possible that some lines of this menu will not be displayed.

2.1. Input weight :

To execute an input weight, you must press on the key .

Enter the number of the vehicle present on the weighbridge, as well as the validated data. The weight is memorized and printed.

Remarks :

- If the vehicle number entered corresponds to a vehicle already in but not out, the error message "**ERROR E. 51 (ESC)**" will be displayed on the operator guide.
- If the memorization file of the input weight is full, the error message "**ERROR MP. 61 (ESC)**" will be displayed on the operator guide.

2.2. Output weight :

To execute an output weight, you must press on the key .

Give the vehicle number present on the weighbridge as well as the validated data. And the weight is printed.

Remarks :

- If the vehicle number entered corresponds to a vehicle already out or not yet in, the error message "**ERROR CI. 60 (ESC)**" will be displayed on the operator guide.

2.3. Weight with a tare file :

To execute a weight with a tare file, you must press on the key .

Give the vehicle number present on the weighbridge as well as the validated data. And the weight is printed.

Remarks:

- If the vehicle number entered does not appear in the tare file, the error message "**ERROR CI. 60 (ESC)**" will be displayed on the operator guide.

2.4. Gross/Tare/Net Weight :

To execute a Gross/tare/net, you must:

- Position the vehicle on the weighbridge.

- Make a tare, either automatic (key  or ) or by entering a keyboard tare value. (Key )

- Press on the key , give the vehicle number present on the weighbridge as well as the validated data.
- The weight is printed.

2.5. Management of the input weights file :

Press on the key  from the WEIGHING MENU to access this function. The operator guide will display the following menu :

```

1st WEIGHING

F1  = PRINT FILE
F3  = DEL RECOERD
F4  = DEL FILE
ESC = RETURN MENU

```

2.5.1 Printing of the file :

Press on the key , the operator guide will display on its second line "**PRINTING**" and the content of the input file is printed.

Printing example:

```

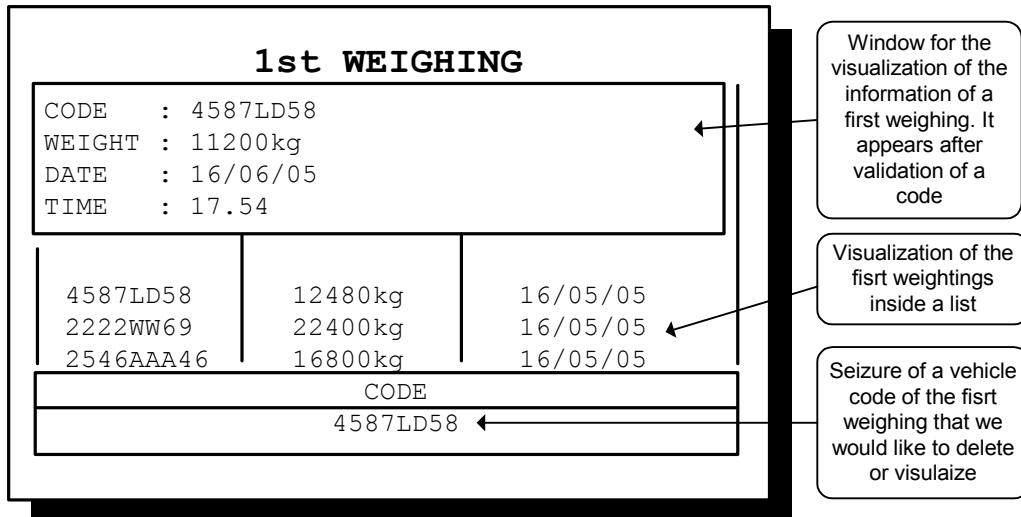
VEHICLE No
DATE : 10/05/2005      TIME : 16.16
-----
:1567ABN69 : 08370kg: 10 05 05 15 58:
:159KK69   : 07740kg: 09 05 05 14 04:

```

The first field corresponds to the code of the input vehicle, the second field corresponds to the weight of the vehicle during its entry, the third field corresponds to the date and the time of the entry of the vehicle. Once the printing is done, we return to the menu "1st WEIGHING".

2.5.2 Erase of a line of the file :

Press on the key , The operator guide will display a list of the 1st existing weights, then at the last line a code entry.



1st WEIGHING

CODE : 4587LD58
 WEIGHT : 11200kg
 DATE : 16/06/05
 TIME : 17.54

4587LD58	12480kg	16/05/05
2222WW69	22400kg	16/05/05
2546AAA46	16800kg	16/05/05

CODE
 4587LD58

Window for the visualization of the information of a first weighing. It appears after validation of a code

Visualization of the first weightings inside a list

Seizure of a vehicle code of the first weighing that we would like to delete or visualize

The key  or  allows to access directly the beginning of the file. Display of the first 9 lines.

The key  allows to access directly the end of the file. Display of the last 9 lines.

The key  or  allows to unthread the file from page to page in ascending order.

The key  or  allows to unthread the file from page to page in descending order.

The key  allows to quit the management file and return to the menu « **1st WEIGHING** »

To erase a first weighing, you must enter the vehicle code corresponding then validate. If the code is known, the system asks you for a confirmation for the erasing. To confirm the erasing, press on the key « **1** » of the digital pad or press « **0** » if otherwise. In case the code is unknown, the system displays an error message.

2.5.3 Erasing of a file :

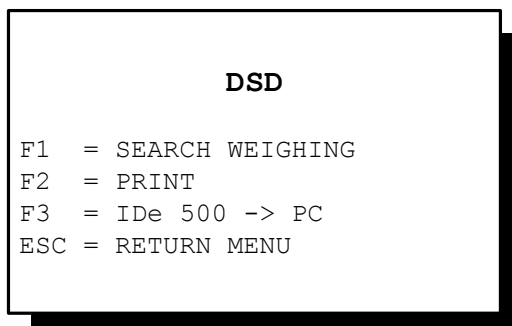
On press on the key , the operator guide displays "**TYPE KEY CODE**". You then have 10 seconds to enter the following key code "**2110**".

The operator guide displays "**INITIALISED (ESC)**", press on the key "**ESC**" to return to the «**1st WEIGHING** » menu.

2.6. DSD management :



Press on the key from the WEIGHING MENU to access this function. The operator guide will display the following menu :



Remark : It is possible to enter directly in this menu in the application mode by pressing on the key .

2.6.1. Search of a weight in the DSD



Press on the key, The operator guide will display the following parameter to inform:
DSD No : XXXXXX Enter the DSD required number (6 digits), and validate.

The following information will be displayed :

```

NoDSD=NNNNNN DD/MM/20AA HH.MM
IIIIIIIIIIIIIIII:XXXXXXXXXX

G =SXXXX.XYY
TT=SXXXX.XYY CANCEL
N =SXXXX.XYY

NNNNNNNNNNNNNNNN:CCCCC
NNNNNNNNNNNNNNNN:CCC
NNNNNNNNNNNNNNNN:CCC
NNNNNNNNNNNNNNNN:CCC
NNNNNNNNNNNNNNNN:DDDDD.D
  
```

NoDSD=NNNNNN

DSD number of the displayed weight.

DD/MM/20YY

Date of the displayed weight, 11/05/2005 for the 11th of may 2005.

HH.MM

Time of the displayed weight, 10.20 for 20 minutes past ten.

IIIIIIIIIIIIIIIIIIIIIdentifier Input/Output. (By default : " **No VEHICLE**")**XXXXXXXXXX**Input/output identification label of the displayed weight, on 10 characters.
(For example number of the weighed vehicle)**G =SXXXX.XYY**Gross weight of the displayed weight on 5 digits with the decimal point, the "**YY**" correspond to the unit "**kg**" or "**t** " and the "**S**" corresponds to the sign. ("-" for a negative weight or " " for a positive weight)**TT=SXXXX.XYY**Tare weight values displayed on 5 digits with the decimal point, the "**YY**" correspond to the unit "**kg**" or "**t** " and the "**S**" to the sign. The "**TT**" corresponds to the tare type. ("**P** " for a semi automatic tare and "**PT**" for a keyboard tare)**CANCEL**This message appears if the weight is cancelled by pressing the key . This allows not to take into account this weight during Addition.**N =SXXXX.XYY**Net weight value displayed on 5 digits with the decimal point, the "**YY**" correspond to the unit "**kg**" or "**t** " and the "**S**" corresponds to the sign.**NNNNNNNNNNNNNNNN : CCCCCC**Name of the file N°1 (by default : "**CLIENT**") and the corresponding code of the displayed weight on 6 digits.**NNNNNNNNNNNNNNNN : CCC**Name of the file N°2 (by default : "**PRODUIT**") and the corresponding code of the displayed weight on 3 digits.**NNNNNNNNNNNNNNNN : CCC**Name of the file N°3 (by default : "**CHANTIER**") and the corresponding code of the displayed weight on 3 digits.**NNNNNNNNNNNNNNNN : CCC**Name of the file N°4 (by default : "**TRANSPORTEUR**") and the corresponding code of the displayed weight on 3 digits.**NNNNNNNNNNNNNNNN : DDDDD.D**Name of the simple data N°1 (by default: "**REF.No 1**") and the corresponding data of the weight displayed on 6 digits and a decimal point.The key  or  allows the access to the next weighing.The key  or  allows the access to the previous weighing.The key  allows the cancellation of a weight without being erased from the DSD to permit not to be taken into account during the addition.The key  allows to quit the management file and return to the **WEIGHING MENU**.

2.6.2. Printing of the DSD



Press on the key and we have to enter the following parameters :

Begin Date Choose the date of the beginning of the DSD printing, and validate.

XX/XX/20XX

End date Choose the date of the end of the DSD printing, and validate.

XX/XX/20XX

The printing of the DSD is launched. The messages "**PRINTING**" then "**SORT DSD. 244/XXX**" will be displayed and the polling of the DSD begins until the message "**SORT DSD. 244/244**" is being displayed. Afterwards we return to the "**DSD**" menu.

Remark : The message "**SORT DSD. 244/XXX**" (with "**XXX**" incremented till 244) will not be displayed if the DSD is not validated on the memory extension board.

2.6.3. Transmission of the DSD from the indicator to a PC



For this you will have to :

- Connect the computer (on Com1) with the IDe (on Com1).
- Lunch the Hyper terminal software. (Access path of hyperterm.exe: "C:\Program Files\Accessories\HyperTerminal\HYPERTRM.EXE")
- Give a name to the connection and validate (TERMINAL.IDE).
- Then in the heading "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, go to "Transfer" then in "Capture the text", define the file name of the saved file and validate "Start".



The computer is then ready to communicate with the indicator. Press on the key on the indicator and enter the following parameters:

Begin Date Choose the date of the beginning of the DSD transmission, validate with .

XX/XX/20XX

End date Choose the date of the end of the DSD transmission, and validate with .

XX/XX/20XX

The operator guide displays on its second line "**HYPERTERMINAL tr**" then "**SORT DSD. 244/XXX**" is displayed and the polling of the DSD begins until the message " **SORT DSD. 244/244**" is displayed. The DSD required, being visualized on the screen, the transfer is finished.

When the transfer is finished, you must close the capture. For this, you must go in "Transfer" then in "Capture the text" and "Stop".

Remarks :

- The message "**SORT DSD. 244/XXX**" (with "**XXX**" incremented till 244) will not be displayed if the DSD is not validated on the memory extension board.
- The file .TXT with field separator by tabulation is directly readable with a calculator (i.e. :EXCEL).

2.7. Capture of the files and simple data in weighing mode.

Once a weighing is launched by , ,  or  one of the two windows below will be displayed:

VEHICULE NO
 _____

TARE CODE
 _____

Enter the vehicle code or the tare file code.

For an output weighing  or a weighing with the tare file , Press on the key  or  after entering one of the previous codes. We dispose so of the list of the vehicles weighed in input for an output weighing and of the list of vehicles of the tare file for a weighing with a tare file.

You may move inside the list with the help of the following keys :

Keys	 / 		 / 	 / 		 / 
Actions	Allows to access directly to the beginning of the list. Display of the first 9 lines.	Allows to access directly to the end of the list. Display of the last 9 lines.	Allows the unthreading of the list from page to page in ascendant order.	Allows the unthreading of the list from page to page in descendant order.	Allows to quit the list.	Allows the selection of the pointed code.

Once the chosen code is validated, the system requires the capture of the validated files and the following window appears :

CODE *FFFFFFFFFFFFFFFF*
 *CCCCC* *DDDDDDDDDDDDDDDDDD*

FFFFFFFFFFFFFFFF ⇒ File name in progress.

CCCCC ⇒ Actual code.

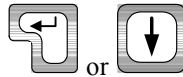
DDDDDDDDDDDDDDDDDD ⇒ Data attributed to the actual code.

The files are entered by their codes with the help of the digital keypad. When you enter an existing code, the corresponding label appears.

It is also possible to enter the files by using the labels (only if the label exists), for this tape the first letter of the label and the label and its corresponding code appears. If there are many labels which begin with the same letter, the list of these labels appears, you can move inside this list with the help of the following keys :

Keys	 / 		 / 	 / 		 / 
Actions	Allows to access directly to the beginning of the list. Display of the first 9 lines.	Allows to access directly to the end of the list. Display of the last 9 lines.	Allows the unthreading of the list from page to page in ascendant order.	Allows the unthreading of the list from page to page in descendant order.	Allows to quit the list.	Allows the selection of the pointed code.

It is possible to move to the next entry by using the keys



or

It is also possible to correct an entry by going back to the previous code by using the key



If the file memorization option is activated it is possible to create a new register. For this it will be sufficient to enter and validate an existing code inside the file, then enter its label and validate. If the creation took place correctly, an audio beep will be emitted. If at the opposite, the file memorization option is not activated, then the system stays in waiting for the entry of an existing code inside the file.

The key  allows the re-initialization of the entry in progress.

The key  allows to quit the entry therefore cancel the weighing.

Once the entry of the validated files is done, the system requires the entry of the validated simple data and the following window appears :



FFFFFFFFFFFFFFFF ⇒ Name of the simple data to enter.

DDDDDDDDDDDDDDDD ⇒ Value of the simple data.

It is possible to move to the next entry by using the keys



or

It is also possible to correct an entry by going back to the previous code by using the key

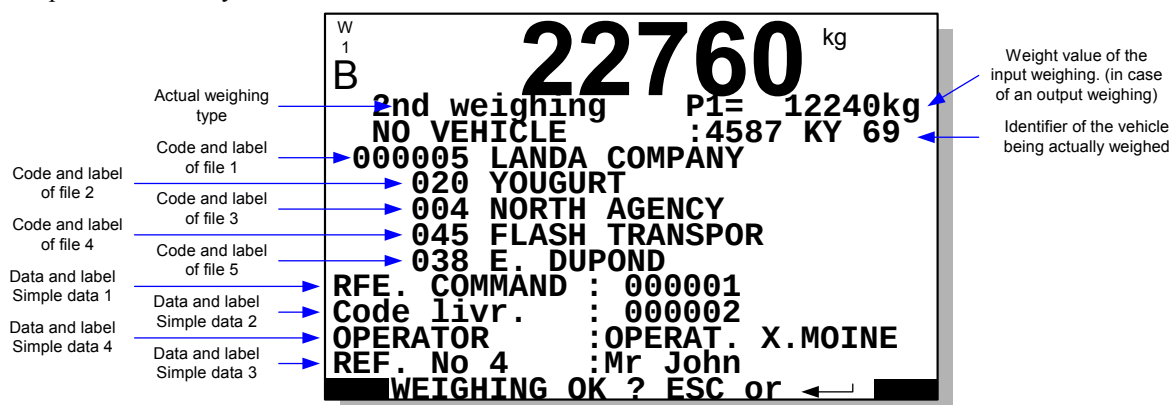


The key  allows the re-initialization of the entry in progress.

The key  allows to quit the entry therefore cancel the weighing.

Once the entry of the validated simple data is done, the summary of the previous entries appears.

Example of a summary :



Either you validate the weight and the associated entries by pressing on the keys  or , or you

cancel the weight by pressing on the key .

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

2.8. Example of a printing of a standard ticket.

Example with a ticket which does not contain any valid data:

MASTER-K ARPEGE		
Company name	38 avenue des Frères Montgolfier BP 186 69 686 Chassieu Cedex	
Date/hour of the first weighing	DATE : 17/05/2005	TIME : 09h50
Date/hour of the weighing	DATE : 17/05/2005	TIME : 09h50
DSD number of the weighing	WEIGHING No : 000006-ES	
	DSD No : 000002	
	VEHICLE No : 789AGH69	
		Numéro (XXXXXX) et type (YY) de la pesée : ES : Pesée d'entrée/sortie, TF : Pesée le fichier tare, TM : Pesée Brut/Tare/Net.
GROSS/TARE/NET Weight	GROSS : 46720kg	
	TARE : 11660kg	
	NET : 35060kg	
End of the ticket	Observations: Signature :	Input/ output identifier and its assigned label.

Example with a ticket which contains all the valid data:

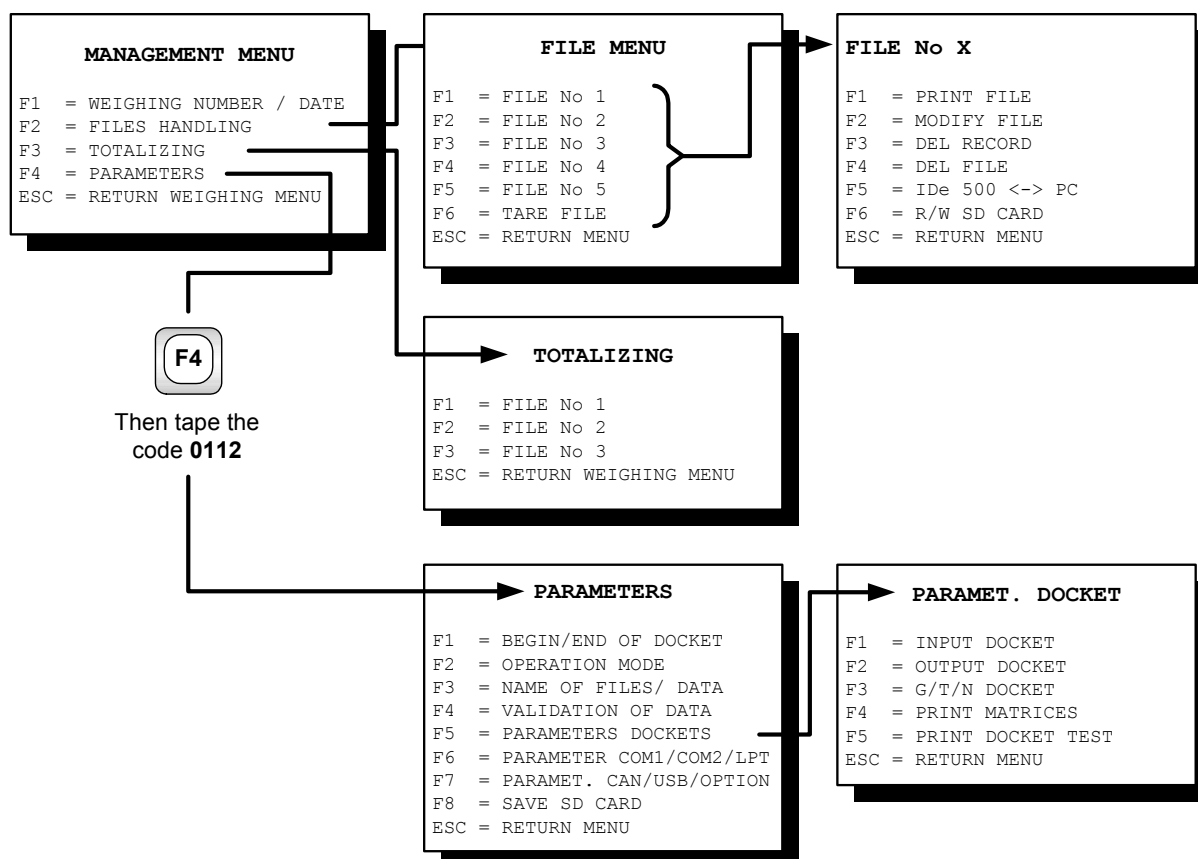
MASTER-K ARPEGE		
Company name	38 avenue des Frères Montgolfier BP 186 69 686 Chassieu Cedex	
Date/time of the first weighing.	DATE : 17/05/2005	TIME : 09h29
Date/time of the weighing.	DATE : 17/05/2005	TIME : 09h45
DSD number of the weighing	WEIGHING No : 000004-IO	
	DSD No : 000001	
	VEHICLE No : 1245ACC69	
Name of file 1 with its assigned code and label	CUSTOMER : 000078	GTP Construction
Name of file 3 with its assigned code and label	PRODUCT : 004	Sable fin
Name of the simple data n°1 with its assigned data	TRANSPORTER : 127	Transpomat
Name of the simple data n°2 with its assigned data	Treatment : 110505	
Name of the simple data n°3 with its assigned data	Humidity in % : 012.500	
Name of the simple data n°4 with its assigned data	Impurity in % : 002.500	
Name of the simple data n°5 with its assigned data	Site : Stock	GTP
Name of the simple data n°6 with its assigned data	Distance : 45	Km
	Operator : E. LEGRAND	
GROSS/TARE/NET Weight	GROSS : 38060kg	
	TARE : 14440kg	
	NET : 23620kg	
END OF THE TICKET	Observations: Signature :	

3. MANAGEMENT MENU / PARAMETERIZATION.

To access the MANAGEMENT MENU of the indicator, you must :



- Press on the key **F6** from the WEIGHING MENU,
- Tape the code "7806",
- The indicator will then display the following MANAGEMENT MENU :



3.1. Weighing Number / date:



Weighing number : XXXXXX

Enter the weighing number of 6 digits and validate.

DAY : DD
MONTH : MM
YEAR : 20AA

HOUR : HH
MINUTE : MM

Enter the date and time desired and validate.

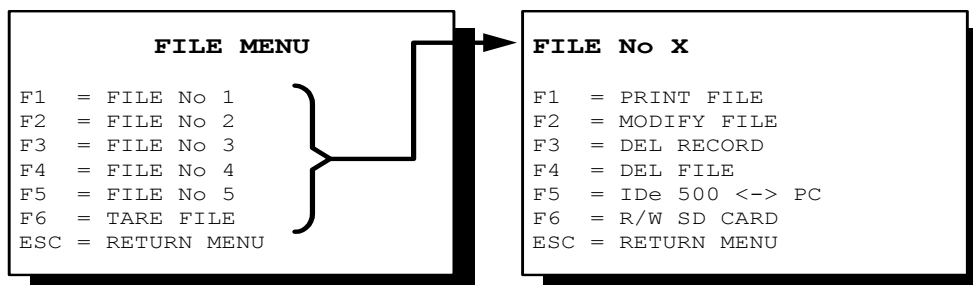
(Format : 07/05/05 15h00 for the 7th of may 2005 at 15h00min00s)

Return to the « **MANAGEMENT MENU** ».

3.2. Files Handling :

Remark : This menu is "dynamic", according to the parameterization of the application, it is possible that some lines will not be displayed.

From the **WEIGHING MENU**, we access the **FILE MENU** by pressing on the key , then tapping the code **7806**, and then pressing on the key .



To access the sub-menu, you must press on the key corresponding to the file you would like to access. The sub-menu is identical for all the files. The operator guide indicates the name of the file on the first line (For example : CLIENT) and the menu on the other lines :

3.2.1. Print File :

Press on the key , the operator guide displays "**PRINTING**" and the content of the file is printed.

Printing example of the file No1 : CLIENT (by default)

```

      CUSTOMER
DATE : 10/05/2005      TIME : 12.15
-----
: 000000 : VARIOUS      :
: 000001 : CUSTOMER N1    :
: 000002 : CUSTOMER N2    :
  
```

The first field corresponds to the "**CODE**" of the customer and the second field the customer's "**NAME**". Once the printing is finished, we return to the menu "**File N°1**".

Printing example of the file No2 : PRODUCT (by default)

```

      PRODUCT
DATE : 10/05/2005      TIME: 14.44
-----
: 000 : VARIOUS      :
: 001 : PRODUCT 1    :
: 002 : PRODUCT 2    :
  
```

The first field corresponds to the "**CODE**" of the product and the second field the product's "**NAME**". The files 3, 4 and 5 are the same. Once the printing is finished, we return to the menu "**File N°2**".

Printing example of the file: FIXED TARES

```

      FIXED TARES

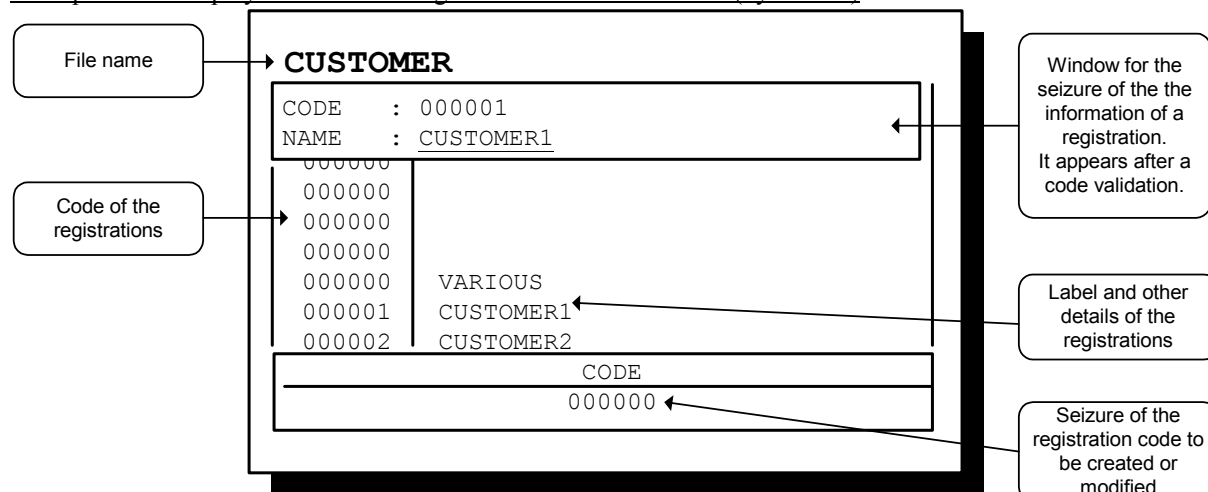
DATE : 10/06/2005      TIME : 15.31
TARE CODE: TARE   : F1   : F2: F3
-----
1234AA69   : 05400kg: 000001:001:001
9852ACG69   : 08000kg: 000002:001:001

```

The first field corresponds to the "**CODE**" of the fixed tare, the second field corresponds to the value of its "**TARE**", the third field corresponds to the call code of the "**CLIENT**" appointed, the fourth field corresponds to the call code of the "**PRODUCT**" appointed, the fifth field corresponds to the call code of the "**SITE**".
Once the printing is finished, we return to the menu "**FIXED TARES**".

3.2.2. File modification :

Press on the key , the operator guide displays a list of existing registers and a code entry at the last line. This file handling is identical for all the files and it is accessible in modification and in erasing of a file.

Example of the display of a file handling of the file No1 : CLIENT (by default)

The Code 0 and the label VARIOUS is created by default inside the files 1 to 5. This registration is not modifiable inside the file but the label can be changed during a weighing. This allows the printing of an occasional label which does not require the creation of a register.

To access a register, you must enter its code on 6 digits for the file No1 or on 3 digits for the files No 2 to 5, or on 10 characters for the FIXED TARES file. After validation, a window appears at the top of the screen allowing the entry of the different information corresponding to the entered code.

The key  or  allows to access directly to the beginning of the file. Display of the first 9 lines.

The key  allows to access directly to the end of the file. Display of the last 9 lines.

The key  or  Allows the unthreading of the list from page to page in ascendant order.

The key  or  Allows the unthreading of the list from page to page in descendant order.

The key  allows to quit the file handling and return to the **FILE MENU**.

3.2.2.1 Modification or creation of a line of the file No 1 : CLIENT.

The fields to be filled are :

CODE : **XXXXXX** Enter the code of the registration to be created or modified (6 digits), and validate.

NAME : **XXXXXXXXXXXXXXXXXXXX** Enter the name of the required customer (21 characters), and validate

3.2.2.2 Modification or creation of a line of the file No 2 t 5.

The fields to be filled are :

CODE : **XXX** Enter the code of the registration to be created or modified (3 digits), and validate.

NAME : **XXXXXXXXXXXXXXXXXXXX** Enter the name of the required customer (21 characters), and validate.

3.2.2.3 Modification or creation of a line of the file FIXED TARES.

The fields to be filled are :

CODE : **XXXXXXXXXX** Enter the code of the required fixed tare (10 characters), and validate.

TARE : **XXXXXkg** Enter the value of the required tare (5 digits), and validate.

CODE F1 : **XXXXXX** Enter the call code of the "CUSTOMER" required (6 digits), and validate.

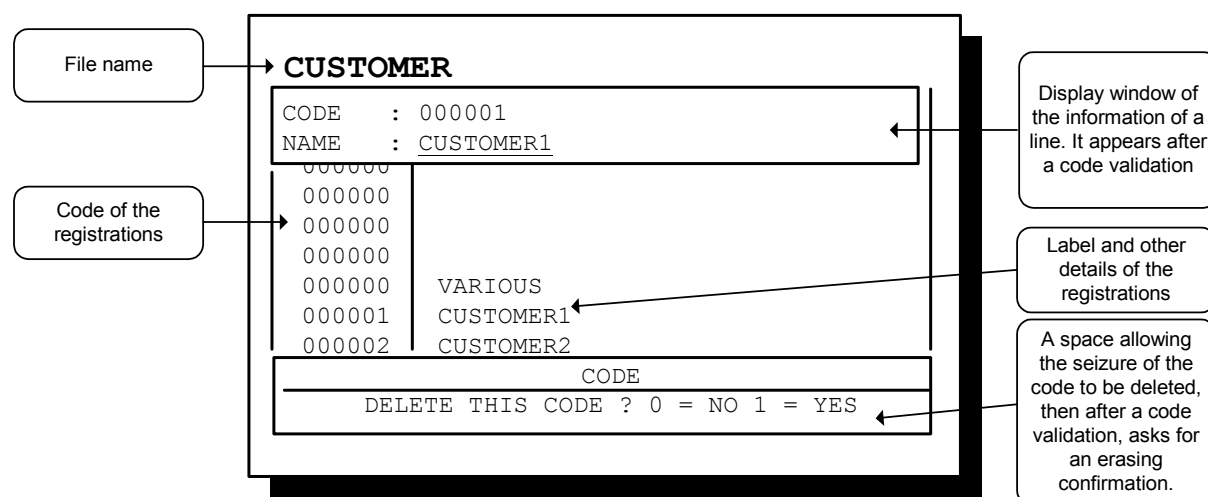
CODE F2 : **XXX** Enter the call code of the "PRODUCT" required (3 digits), and validate.

CODE F3 : **XXX** Enter the call code of the "SITE" required (3 digits), and validate.

3.2.3. REGISTER ERASING :



Press on the key , the operator guide displays a list of existing registrations and a code entry at the last line.



To erase a line or a register, you must tape the corresponding code then validate. If the code is known, the system asks for a confirmation of the erasing. To confirm the erasing, press on the key 1, if not press on the key 0. In case the code is unknown, the system displays an error message.

The key  allows to quit at any moment and to return to the **FILE MENU**.

3.2.4. Erasing of a File :



Press on the key , the operator guide displays **"TAPE KEY CODE"**. You have 10 seconds to tape the following key code **"2110"** or **"0112"**.

The operator guide displays **"INITIALISED (ESC)"**, press on the key **"ESC"** to return to the **FILE MENU**.

3.2.5. Transmission of the file from the indicator to a PC :



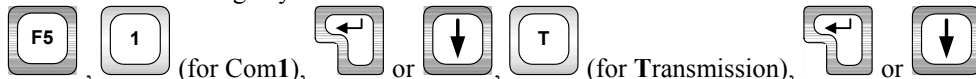
For this you must :

- connect the computer (on Com1) with the IDe (on Com1).
- launch the Hyper terminal software. (access path of hyperterm.exe: **"C:\Program Files\Accessories\HyperTerminal\HYPERTRM.EXE"**)
- give a name to the connection and validate (TERMINAL.IDE) .
- then in the heading **"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 PC is ready to communicate with the indicator.

To save the data transmitted by the indicator, you must click, in the HyperTerminal, on the **"Transfer"** menu then **"Capture the text"**. Afterwards, define the file name of the registration and validate **"START"**. The PC is then waiting for the information to stock it in the file .txt.

Press on the following keys on the indicator :



The operator guide displays **"TRANSMISSION..."** and a counter of the number of lines transmitted to the PC:
The required file appears on the PC screen.

When the transfer is over, you must close the capture. For this, you must go in **"Transfer"** Then in **"Capture the text"** and **"STOP"**.

Remark: The file .TXT with field separator by tabulation is directly readable with a calculator (i.e. :EXCEL).

3.2.6. Reception of a file from a PC toward an indicator :

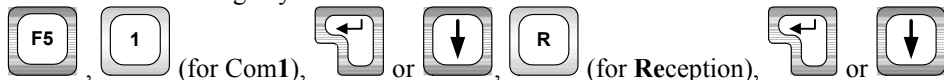


For this you must :

- connect the computer (on Com1) with the IDe (on Com1).
- launch the Hyper terminal software. (access path of hyperterm.exe: **"C:\Program Files\Accessories\HyperTerminal\HYPERTRM.EXE"**)
- give a name to the connection and validate (TERMINAL.IDE) .
- then in the heading **"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 PC is ready to communicate with the indicator.

Press on the following keys on the indicator :



The operator guide displays **"RECEPTION..."**. The indicator is waiting for the file.

Under HyperTerminal, you must go to **"File"**, **"Proprieties"**, then in **"Configure"**, pass the **"Flow Control"** parameter in **"Xon/Xoff"** mode. Validate twice **"OK"**.

And you must also go in **"Transfer"** then in **"Send a text file"**, define the file of the registration to be loaded and validate **"Open"**.

The file appears on the PC screen and the line counter increases on the IDe 500, then at the end of the transfer, the indicator returns automatically in the **"File N°x"** menu.

Remark: Think of putting back the **"Flow control"** in **"None"** mode.

3.2.7. Saving of the file of the IDe 500 in the extension memory board :



Press on the following keys on the indicator :



for saving (**W**riting),



or

The operator guide displays "**WRITING** .." during the time of the saving and displays also a counter of the number of saved lines then returns to the "**File N°x**" menu.

3.2.8. File recuperation from the extension memory board to the IDe 500 :



Press on the following keys on the indicator:



for Recuperation (**R**ecuperation),



or

The operator guide displays "**READING** .." during the time of the recuperation and displays also a counter of the number of recuperated lines then returns to the "**File N°x**" menu.

3.3. Parameterization :

When you are under the **WEIGHING MENU**, press on the key  then tape the code « **7806** » to access to the **MANAGEMENT MENU**. Then, press on the key  and tape the code « **0112** » to access to the **PARAMETERS** menu:

PARAMETERS	
F1	= BEGIN/END OF DOCKET
F2	= OPERATION MODE
F3	= NAME OF FILES/ DATA
F4	= VALIDATION OF DATA
F5	= PARAMETERS DOCKETS
F6	= PARAMETER COM1/COM2/LPT
F7	= PARAMET. CAN/USB/OPTION
F8	= SAVE SD CARD
ESC	= RETURN MENU

3.3.1. Begin / end of docket.

Press on the key  to access this function. You will have the following parameters to fill :

> *****	1st line 20 characters in double width
> -----	2nd line 39 characters
> -----	3rd line 39 characters
> -----	4th line 39 characters
> -----	1st line end of ticket 39 characters
> -----	2nd line end of ticket 39 characters

Enter the first line of the company name (20 characters in double width), and validate.
 Enter the second line of the company name (39 characters) and validate.
 Enter the third line of the company name (39 characters) and validate.
 Enter the fourth line of the company name (39 characters) and validate.
 Enter the first line of the end of ticket (39 characters), and validate.
 Enter the second line of the end of ticket (39 characters), and validate.

3.3.2. Operating mode.

3.3.2.1. I/O operating mode.

Activate or not the weigh in / weigh out system and the input ticket , and validate.

I/O MODE : X	0 : weigh in / weigh out deactivated,
	1 : weigh in / weigh out validated and output ticket,
	2 : weigh in / weigh out validated and input and output ticket,
	3 : weigh in / weigh out validated with automatic weigh in / weigh out landmark on 2 digits,
	4 : same as mode 3 but with test of the already existing landmark,
	5 : weigh in / weigh out validated with automatic weigh in / weigh out landmark on 6 digits,
	6 : weigh in / weigh out validated with automatic weigh in / weigh out landmark on 6 digits without input ticket.

3.3.2.2. Erase of the tare.

ERASE TARE : X Choose the erasing or not of the tare after the weighing, and validate.
 0 = No,
 1 = Yes.

3.3.2.3. Minimum Threshold.

Minimum threshold : XXXXXYY Enter the value of the minimum threshold on 5 digits, and validate.
 (YY = unit used, "kg" or "t ")

3.3.2.4. PC keyboard type.

Keyboard type F/U/S : X Enter the type PC keyboard type used and validate.
 F : French keyboard Type « azerty »
 U : English keyboard Type « qwerty »
 S : special keyboard (DO NOT USE)

3.3.3. Name of files and data.

Enter the name for each data and validate with  or . The key  allows to return to the previous entry. The key  allows to quit the entry and go back to the previous menu.

IDENTIFI. : XXXXXXXXXXXXXXXX (By default : **VEHICLE No**)
NAME FI 1 : XXXXXXXXXXXXXXXX (By default: **CUSTOMER**)
NAME FI 2 : XXXXXXXXXXXXXXXX (By default: **PRODUCT**)
NAME FI 3 : XXXXXXXXXXXXXXXX (By default: **SITE**)
NAME FI 4 : XXXXXXXXXXXXXXXX (By default: **TRANSPORTER**)
NAME FI 5 : XXXXXXXXXXXXXXXX (By default: **DRIVER**)
NAME SD 1 : XXXXXXXXXXXXXXXX (By default: **REF. No 1**)
NAME SD 2 : XXXXXXXXXXXXXXXX (By default: **REF. No 2**)
NAME SD 3 : XXXXXXXXXXXXXXXX (By default: **REF. No 3**)
NAME SD 4 : XXXXXXXXXXXXXXXX (By default: **REF. No 4**)

3.3.4. Validation of files and data.

Enter the parameter for each data and validate with  or . The key  allows to return to the previous entry. The key  allows to quit the entry and go back to the previous menu.

The parameter **memorization** of the file allows the activation or the deactivation of the possibility to create a new line inside a file during a weighing.

The parameter **erasing** allows the activation or the deactivation of the re-initialization of the entry of the file or of the corresponding simple data during a weighing.

Choose the user mode of the **file n°1 to 5**, and validate.

OP MODE FILE 1 : XY
 OP MODE FILE 2 : XY
 OP MODE FILE 3 : XY
 OP MODE FILE 4 : XY
 OP MODE FILE 5 : XY

X = 0 : No erasing of the call code before the seizure and no memorization of the file.
 1 : Erasing of the call code before the seizure but no memorization of the file.
 2 : No erasing of the call code before the seizure and memorization of the file.
 3 : Erasing of the call code before the seizure and memorization of the file.
 Y = 0 : data not validated.
 1 : Data seizure as input weighing.
 2 : Data seizure as output weighing.
 3 : Data seizure as input and output weighing.

Choose the user mode of the **simple data n°1 to 4**, and validate.

OP MODE SD 1 : XY
 OP MODE SD 2 : XY
 OP MODE SD 3 : XY
 OP MODE SD 4 : XY

X = 0 : No erasing of the data before the seizure.
 1 : Erasing of the data before the seizure.
 Y = 0 : data not validated.
 1 : Data seizure as input weighing.
 2 : Data seizure as output weighing.
 3 : Data seizure as input and output weighing.

DIGITAL POINT SD 1 : X
 DIGITAL POINT SD 2 : X

Enter the position of the decimal point of the simple data 1 and 2 , then validate. Corresponds to the number of digits at the left of the decimal point.

3.3.5. Parameterization of the tickets.



Press on the key  to access this function. You will get the following menu:

PARAMET. DOCKET

F1 = INPUT DOCKET
 F2 = OUTPUT DOCKET
 F3 = G/T/N DOCKET
 F4 = PRINT MATRICES
 F5 = PRINT DOCKET TEST
 ESC = RETURN MENU

Press on the key  to access to the modification of an input ticket, the following parameter has to be filled.

STANDARD TICKET : X Choose yes or no for a standard INPUT ticket, and validate.

0 : No, (if you validate 0 you will have the ticket matrix to be seized, See chapter 4, CONFIGURABLE TICKETS).
 1 : Yes.



Press on the key to access to the modification of an output ticket, the following parameter has to be filled.

STANDARD TICKET : X Choose yes or no for a standard OUPUT ticket, and validate.
 0 : No, (if you validate 0 you will have the ticket matrix to be seized, See chapter 4, CONFIGURABLE TICKETS).
 1 : Yes.



Press on the key to access the ticket modification of the GROSS/TARE/NET weight, the following parameter is to be filled.

STANDARD TICKET : X Choose yes or no for the standard weighing ticket in G/T/N, and validate.
 0 : No, (if you validate 0 you will have the ticket matrix to be seized, See chapter 4, CONFIGURABLE TICKETS).
 1 : Yes.



Press on the key to print the parameters of these three tickets as well as the content of the configurable ticket of each one.



Press on the key to print the three tickets. This printing will not increment the weighing number and is not recorded in the DSD.



The key allows to quit and return to the previous menu.

3.3.6. Parameters of the peripherals COM1/COM2/LPT.



Press on the key to access this function. Afterwards you must enter the parameters for each port and

validate with or . The key allows the return to the previous menu. The key allows to quit the seizure and go back to the previous menu.

DRIVER (0/1 /9) : X Enter the type of the driver of the COM or LPT.

0 = None.
 1 = Weight repeater.
 2 = FDE Computer.
 3 = Modem.
 4 = ERIC Protocol.
 7 = IBA40 printer. (40 columns)
 8 = ILA410 or ILA800 printer. (80 columns)
 9 = ILA410 or ILA800 printer. (80 columns but used as 40 columns)

TYPE (0/1/2/3/4) : X Enter the type of the serial link.

0 = RS232 without DTR test.
 1 = RS232 with DTR test.
 2 = RS485 2 wires.
 3 = Current loop.
 4 = RS485 4 wires.

SPEED (1/2/4/9/0) : X Enter communication speed rate.

1 = 1200 bauds.
2 = 2400 bauds.
4 = 4800 bauds.
9 = 9600 bauds.
0 = 19200 bauds.

BITS (7/8) : X Enter 7 = 7 bits and 8 = 8 bits.

PARITY (0/1/2) : X Enter 0 = no parity 1 = odd parity 2 = even parity.

STOP (1/2) : X Enter 1 = 1 stop bit 2 = 2 stops bits.

Remark: some combinations of number of bits and parity do not work. Choose if possible, 8 bits, no parity, and 1 stop bit.

PAPER LENGTH (00 to 99) : XX Length of a paper page in number of line feed.

IDE No (00 to 99) : XX Station number of the indicator for the communication protocols.

3.3.7. Parameters of the peripherals MK CAN/USB/OPTION.



Press on the key  to access this function. Afterwards you must enter the parameters for each peripheral and validate with  or . The key  allows the return to the previous menu. The key  allows to quit the seizure and go back to the previous menu.

MK CAN DRIVER (0/1) : X Enter the driver type of the CAN Bus link.
0 = None.
1 = Weight repeater.

USB DRIVER (0/2/4) : X Enter the driver type of the USB link.

0 = None.
2 = FDE computer.
4 = ERIC Protocol.

SD CARD OPTION (0/1/2) : X Activate or not the storage of the DSD on the memory extension board and validate.



ATTENTION : Utiliser uniquement des cartes fournies par MASTER K et les réserver à ce seul usage toutes les autres données présentes sur la carte pouvant être perdues

- 0 = DSD storage on the memory extension board is not activated.
- 1 or 2 = Do not use.
- 8 = Utilization of the SD Card in FAT16 format (DOS / WINDOWS compatible) for the transfer of the files 1 to 5, the application* and metrological* parameters and for the DSD file.
- 9 = Utilization of the SD Card in FAT16 format (DOS / WINDOWS compatible) for the transfer of the files 1 to 5, and for the stream memorization of the ticket's information (fixed format); the DSD transfer is then disabled and the absence of the board is blocking.

* Not readable only for the system's saving and the restoration.

ATTENTION : In case of a reading error on the computer, format the SD card and retry file by file.



4I/4O OPTION BOARD (0/1) : X Define the parameters for the option board.

0 = No option board.

1 = 4I4O option board, with or without 0-10V / 4-20mA output.

Definition of the 4 outputs :

S1 : Low threshold.

S2 : Weighing done.

S3 : Input weighing done.

S4 : Output weighing done.

3.3.8. Saving and/or Recuperation of the parameters on the SD CARD.



Press on the key  to access this function.

To save the parameters, press on the key  (**Writing**) and validate with  or .

The operator guide will display "**WRITING** . ." during the saving period.

To recover the parameters, press on the key  (**Reading**), and validate with  or .

The operator guide will display "**READING** . ." during the recovery period.

3.3.9. Quit the parameterization.



ATTENTION :

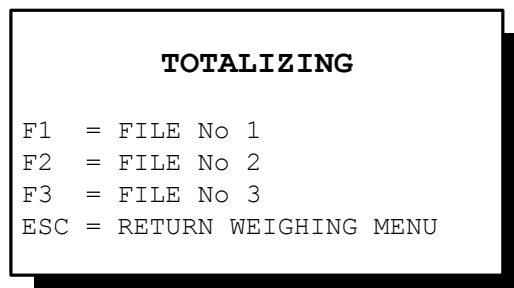


*If important parameters have been modified , so after displaying "**SAVING**" The indicator displays "**PRINTING**" and all the applicative parameters will be printed. Then we return not the main menu but the "**WEIGHING MENU**".*

3.4. Totalizing.



When you are in the management menu, press on the key  to access the "**TOTALIZING**" menu, and you will get the following :



Remark :

- The totalizing is only executed on the last 28 000 weightings.
- If the totalizing needs a lot of memory resources, the error message "**ERROR MP. 61 (ESC)**" will be displayed on the operator guide, restart the totalizing by reducing the work range. (Begin Date– End Date)

3.4.1. Printing of the totals of file 1.



Press on the key "1" to access this function, the operator guide displays the name of the file N°1 "**CUSTOMER**" and you will have to fill the following parameters :

TYPE	: X	Choose the totalizing type desired, and validate with  .
		1 : General addition of the file N°1, (Total weights by customer)
		2 : Addition of the file N°1 in relation to the file N°2, (Total Weights by product for each customer)
		3 : Addition of the file N°1 in relation to the file N°3, (Total Weights by transporter for each customer)
		4 : List of weights done in relation to the file N°2 for each line of the file N°1. (Detail of the weights by product for each customer)
CODE	: XXXXXX	Choose the code of the file N°1 of the required addition, and validate with  (with the code " 999999 " the addition will be executed for all the file N°1), If the chosen totalizing type is "1", there is no need to fill this parameter.
Begin Date	XX/XX/20XX	Choose the date of the beginning of the addition , and validate with  .
End Date	XX/XX/20XX	Choose the date of the end of the addition , and validate with  .

The addition is launched and printed. The messages "**SORT IN PROGRESS**" and "**PRINTING**" will occur many times according to the chosen totalizing type and you will return to the "**TOTALIZING**" menu.

3.4.2. Printing of the totals of file 2.

Press on the key "2" to access this function, the operator guide displays the name of the file N°2 "**PRODUCT**" and you will have to fill the following parameters :

TYPE	: X	Choose the totalizing type desired, and validate with ↵. 1 : General addition of the file N°2, (Total weights by product) 2 : Addition of the file N°2 in relation to the file N°3, (Total Weights by transporter for each product)
CODE	: XXX	Choose the code of the file N°2 of the required addition, and validate with ↵ (with the code "999" the addition will be executed for all the file N°2), If the chosen totalizing type is "1", there is no need to fill this parameter.
Begin Date XX/XX/20XX		Choose the date of the beginning of the addition , and validate with ↵.
End Date XX/XX/20XX		Choose the date of the end of the addition , and validate with ↵.

The addition is launched and printed. The messages "**SORT IN PROGRESS**" and "**PRINTING**" will occur many times according to the chosen totalizing type and you will return to the "**TOTALIZING**" menu.

3.4.3. Printing of the totals of file 3.

Press on the key "3" to access this function, the operator guide displays the name of the file N°3 "**SITE**" and you will have to fill the following parameters :

TYPE	: X	Choose the totalizing type desired, and validate with ↵. 1 : General addition of the file N°3, (Total weights by site) 2 : Addition of the file N°3 in relation to the file N°2, (Total Weights by product for each site)
CODE	: XXX	Choose the code of the file N°3 of the required addition, and validate with ↵ (with the code "999" the addition will be executed for all the file N°3), If the chosen totalizing type is "1", there is no need to fill this parameter.
Begin Date XX/XX/20XX		Choose the date of the beginning of the addition, and validate with ↵.
End Date XX/XX/20XX		Choose the date of the end of the addition, and validate with ↵.

The addition is launched and printed. The messages "**SORT IN PROGRESS**" and "**PRINTING**" will occur many times according to the chosen totalizing type and you will return to the "**TOTALIZING**" menu.

4. CONFIGURABLE TICKETS

The standard tickets are always stored in memory inside the indicator. They are realized in a format allowing its printing on an IBA40 printer (on 40 columns). They regroup all the information gathered during the weighing.

If you disable the standard ticket parameter, the system will then propose to you the configurable ticket. It allows a personalized layout as well as the choice of the printed data. This ticket is realized by programming with the use of simple commands.

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

3.4.4. The commands for the configurable tickets.

There are 8 different commands, which allow to drive the printer. One command is **always** composed of three characters ; **1 letter** ; the semi column ';' is the separator which must **obligatory** occurs between each command. It can also serve to finish a line and be replaced later by a command.

;N; = Number of tickets.
 ;S; = Standard printing call.
 ;A; = Number of line feed.
 ;B; = Space number.
 ;G; = Passage to bold characters.
 ;P; = Passage to standard characters
 ;T; = Text.
 ;E; = System label.
 ;C; = Control character.
 ;?; = End of ticket. (no data)

The syntax must be :

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 ;S; always alone i.e.: ;S;
 The command ;A; always followed by 2 digits (number of line feed) i.e.: ;A;02;
 The command ;B; always followed by 2 digits (number of spaces) i.e.: ;B;09;
 The command ;G; always alone
 The command ;P; always alone
 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 ;T; always followed by the text to be printed (variable length) i.e.: ;T; HERE IS THE TEXT ;
 The command ;?; always alone

3.4.5. The special keys for the configurable ticket editor.



and

: Passage to the next line.



: Go back up to the previous line.



: Move back the cursor of one character.



: Move forward the cursor of one character.



: Delete the character pointed by the cursor.



: Insertion of a character « ; » under the cursor and shift of the matrix.



: Exit the seizure.

3.4.6. The system's 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)
- 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)
- EP1 : "GROSS" text + 2 spaces.
- EP2 : "TARE" text + 2 spaces or "PT" + 4 spaces.
- EP3 : "NET" Text + 3 spaces.
- DNP : Weighing number data, DSD number. (6 digits)
- DNT : Ticket number data. (6 digits)
- DTP : Weighing type data. (2 characters)
- DDA : Date data. (actual date 8 characters)
- DHE : Time data. (actual time 5 characters)
- DED : Date data of the input weighing. (actual date 8 characters)
- DEH : Time data of the input weighing. (actual time 5 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. (6 digits)
- EIT : Input/output/tare identifier name. (16 characters)
- EF1 : Name of file 1. (16 characters)
- D11 : Code of file 1. (6 digits)
- D12 : Label of file 1. (21 characters)
- EF2 : Name of file 2. (16 characters)
- D21 : Code of file 2. (3 digits)
- D22 : Label of file 2. (21 characters)
- EF3 : Name of file 3. (16 characters)
- D31 : Code of file 3. (3 digits)
- D32 : Label of file 3. (21 characters)
- EF4 : Name of file 4. (16 characters)
- D41 : Code of file 4. (3 digits)
- D42 : Label of file 4. (21 characters)
- EF5 : Name of file 5. (16 characters)
- D51 : Code of file 5. (3 digits)
- D52 : Label of file 5. (21 characters)

Remark :

DP1 and DP2 can be inverted during a double weighing!

Remark :

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

5. THE ERROR MESSAGES OF THE OPERATOR GUIDE.

"ERROR P. 50 (ESC) " → Default on the weight. (off range, off scale, ...)

"ERROR E. 51 (ESC) " → Truck already weighed in input.

"ERROR T1. 52 (ESC) " → Totals 1 full.

"ERROR T2. 53 (ESC) " → Totals 2 full.

"ERROR TS. 54 ESC" → Programming error of the configurable ticket.

"ERROR T3. 55 (ESC) " → Totals 3 full.

"ERROR CI. 60 (ESC) " → Unknown call code.

"ERROR MP. 61 (ESC) " → Memory full.

**IF A DISPLAY PROBLEM OCCURS
(SCREEN EMPTY, LACK OF A PART OF THE
DATA, ...) YOU MUST TURN OFF THE IDE 500
DURING 10 SECONDS AND AFTER TURN IT ON.**