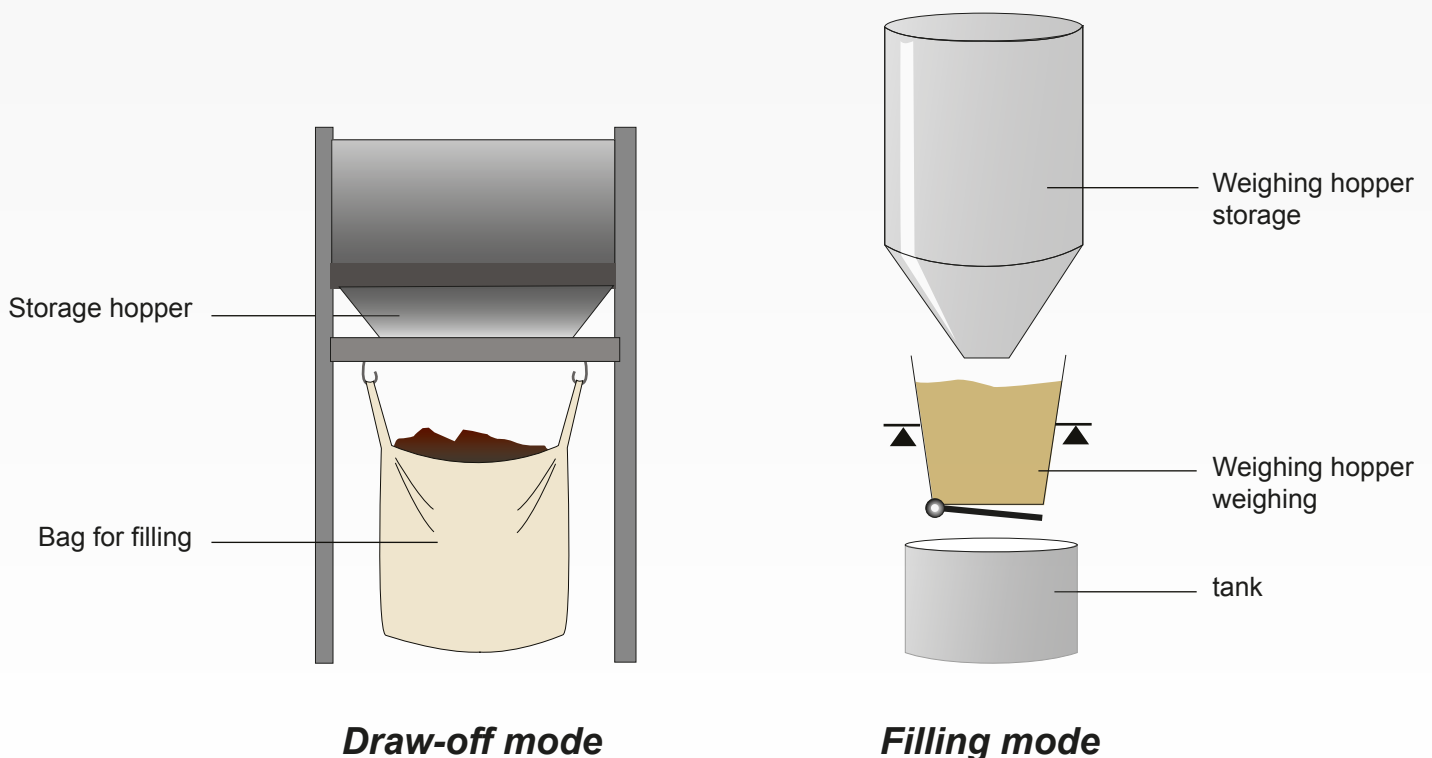# IDe 250
Single-product
dosing software

Description

Software for dosing applications.
The weight indicator Ide 250 with this software offers a high-performance and low-cost solution to modernise or design filling stations for bulk products (dosing devices, bagging machines, etc.) or liquids (drum fillers, bottling machines, etc.).

Operation

➤ The IDe 250 weight controller and its single-product software can replace a PLC in basic applications.

➤ It can be connected to a management system (PC or PLC) in real time with MODBUS/JBUS or Ethernet Modbus TCP (option) protocols.

➤ Dosing can be managed in draw-off mode from a storage hopper or in filling mode from an intermediate hopper.

Storage hopper

Bag for filling

Weighing hopper storage

Weighing hopper weighing

tank

Draw-off mode   ***Filling mode***

Dosing Cycle

The cycle can be started on the front panel, by external contact or by protocol.
Information which may be associated when the cycle starts:
- Product code: 3 digits
- Number of cycles to perform or number of doses: 6 digits
- Material batch no.: 6 digits => material traceability management

Dosing is conducted at 1 or 2 speeds with:
- Tolerance control
- Automatic feed error (FE) correction
- LS regulation

Edit cycle with:
- Display of HS/LS flow rates
- Display of HS and LS duration
- Display of mean and standard deviation
- Display of the dosing setpoint and the number of doses carried out

The system automatically manages the feed error and can automatically start an additional run in the event of negative tolerance.

Display during Dosing

The operator guide provides very useful information about the cycle currently under way, such as the LS setpoints, current feed error value, number of cycles requested, number of cycles already completed and, on request, mean and standard deviation.

Product File

This file may be configured either directly from the front panel of the indicator (using the alphanumeric keyboard or optionally a PC keyboard), or by the control system (PC/PLC). It remains resident in the IDe 250 indicator, the memory being saved by a lithium battery.

Capacity: maximum 999 products

Call code: 3 digits

Data: Product name..(16 characters)
Setpoint .... (6 digits)
Low speed... (6 digits)
Feed error .... (6 digits)
Off tolerance - .... (6 digits)
Off tolerance + ... (6 digits)
HS + LS dosing during HS .... (1 digit: 0 = no, 1 = yes)
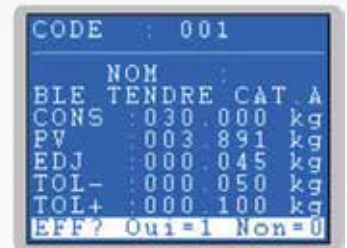
The following fields are only available in "Expert" mode

LS time .... (2 digits)
Digital filtering frequency (Bessel)..................................... (2 digits)
Averager filter.. (3 digits)
Reset frequency... (3 digits)
No. of slow cycles .... (2 digits)
No. of quick cycles .... (3 digits)
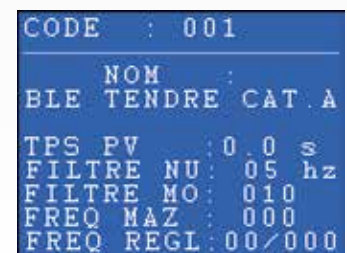
Totals

This function outputs the net dosed weight and number of doses for each product locally.
The indicator manages two totals files which allows, for example, daily and monthly totals to be produced with the following information:

Capacity: maximum 999 products

Data:
- Product code..(3 digits)
- Product name... (16 characters)
- Number of weighing operations (doses) completed.............(7 digits)
- Net dosed total...(10 digits)

> Printing

A 40-column printer is required for the various printouts (80-column printer for the stream):

- Weighing and stream log
- Product File

Data Storage Device file (dosing statistics)

➤ Cycles file

The DSD file stores the last 43,000 dosing cycles carried out by the device.

Data:
- DSD number ....(6 digits)
- Cycle start time .... (8 characters)
- Cycle end time .... (8 characters)
- Batch number..(6 digits)
- Number of weighing operations (doses) completed.............(7 digits)
- Average doses in the cycle ....(6 digits)
- Frequency of slow/fast doses in the cycle (2 digits/3 digits)

➤ Dose log

The dose log stores the last 38,000 doses carried out by the device.

Data:
- DSD number ....(6 digits)
- Dose date.. (10 characters)
- Batch number..(6 digits)
- Setpoint.. (6 digits)
- Dosing state - cycle type...(1 character)
- Dosing state - final cycle state ....(1 character)

➤ Download by PC transfer through USB flash drive

ARPEGE **MASTER**K

Dosing with a sorter

Repeater
RP75 HL

(CAN)

IDe 250

Feed
error

IDe 250

*Closure
of bag*

Sorter

Ejector
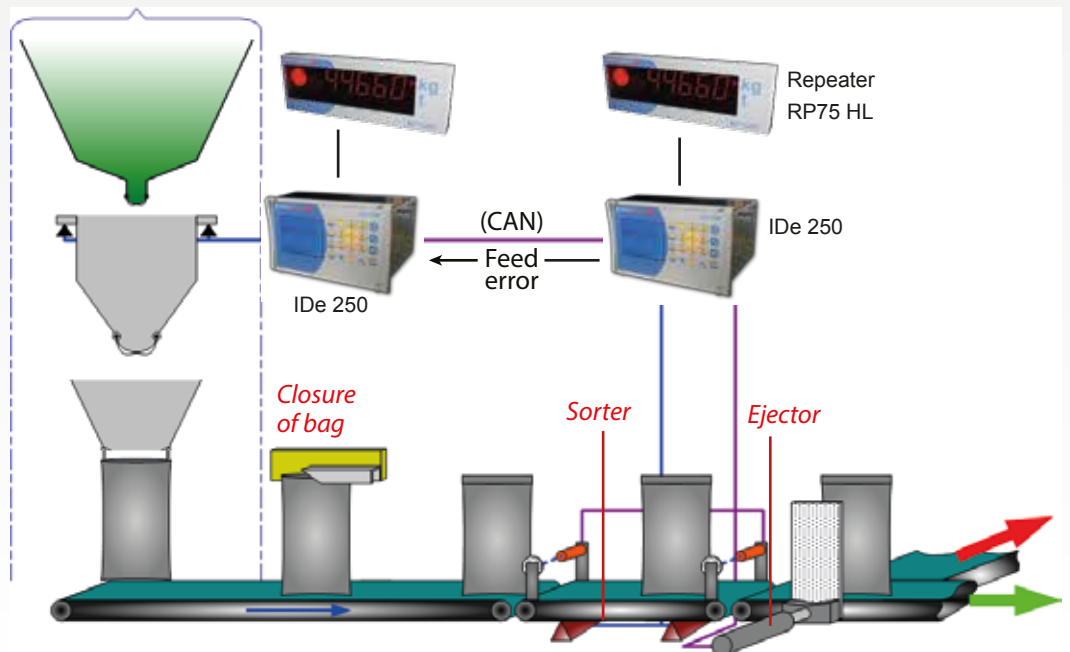
Connections and peripheral devices

Direct command of extraction devices (I/O option). 1 option board from:
- 4I/4O
- 4I/4O + 0-10 V
- 4I/4O + 4-20 mA
- 8I/8O
- 8I/24O
- 16I/24O
- Fieldbus board (PROFIBUS-DP®, Device net®, Ethernet Modbus TCP) HMS

Communication Port:
- 1 LPT for printer
- 1 COM1 RS232 or RS485 2-wire
- 1 COM2 passive current loop (CL)
    - *or optionally, one of the following boards:*
        - Active current loop (CL)
        - Serial RS232
        - Serial RS485 (2-wire or 4-wire)
        - Ethernet Xport Modbus TCP board
        - Analog output 0-10V
        - Analog output 4-20 mA
- 1 Digital Bus CAN for display remote display RP75/15 or CANDY (slow dosage big bag)
- USB not used

Peripheral device management:
- Printer
- Weight remote display
- PC/PLC with MODBUS/JBUS connection or, optionally, with Fieldbus
- PC with RS 232 or modem link
- USB flash drive (option)

Our product factsheets
are available for download
at our website
www.masterk.com

Your contact information