

The Masters of Industrial Weighing

Industrial software Weighing Indicator

IDe 200



**Single product
dosing
software with
batch traceability**

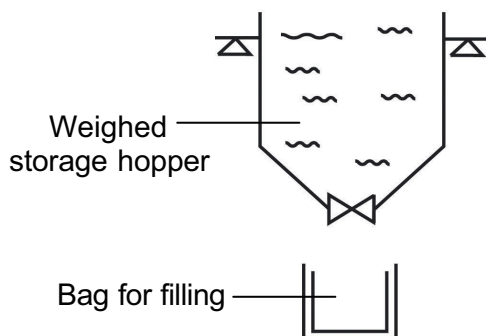
Weighing Controller

The IDe 200 controller and the «Single product» software form a high-performance, low-cost solution to modernise or design modern filling stations for bulk products (dosing devices, bagging machines, etc.) or liquids (drum fillers, bottling machines, etc.)

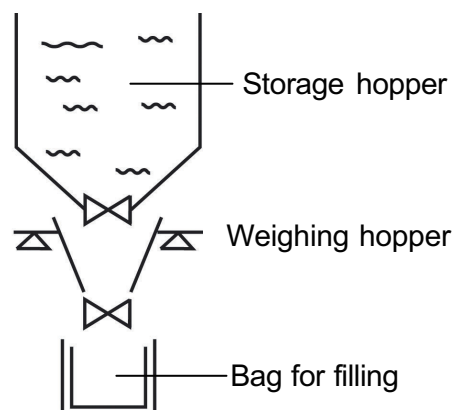
- > Compatible with all strain-gauge weighing load cells on the market and optimised for Arpege and HBM digital load cells.
- > High processing speed = 60 - 180 measurements per second
- > Excellent accuracy and measurement stability:
 - > 6 000 divisions according to standard EN 45 501
 - > Complies with Ri OIML 61
 - > Several filtering algorithms available
- > Simple and intuitive operator interface
 - > Alphanumeric guide, 8 characters, h = 6 mm
 - > Weight and data display, 6 digits, h = 14 mm
 - > Numeric keypad and function keys
- > Direct command of extraction devices
 - > 4 relay output or 24 relay output board
- > Environmental and safety control
 - > 4I or 8I board
- > Peripheral device management
 - > Printer
 - > Weight repeater
 - > Controller/PC with MODBUS/JBUS link
 - > PC with RS 232 C or modem link
- > Packaging complies with electronics standard 3 U 42 TE, or waterproof stainless steel housing in option.
- > 220 V mains supply or 110 V on request.

Operation

The IDe 200 weight controller and its monoproduct software can replace a programmable controller in basic applications. It can be connected to a management system (PC or supervision) in real time with the MODBUS/JBUS protocol. Filling can be managed in tapping-off mode from a storage hopper or in filling mode from an intermediate hopper.



Tapping-off Mode



Filling Mode

Dosing Cycle

- > The cycle can be started on the front panel, by external contact or by MODBUS/JBUS link.
- > The following information is needed before the cycle can be started:
 - > Product code: 2 digits
 - > Number of cycles to perform or number of doses: 4 digits
 - > Batch no.: 6 digits ➡ Materials Traceability Management
- > Dosing is conducted at 1 or 2 speeds with rate and tolerance control.
- > The system automatically manages the feed error and automatically provides a complement in the event of negative tolerance.

Display during Dosing

The operator guide provides very useful information about the cycle currently underway, such as HS and LS set values - number of requested cycles - number of remaining cycles. On request, it also provides: Mean / Standard deviation / Deviation from dose N-1.

Product File

A product file can be user-defined with a PC and will be saved in the IDé 200 indicator's memory thanks to a lithium battery.

This file contains 100 records with:

- > Product code = 2 digits, set value = 5 digits, low speed (LS) = 5 digits, high speed (HS) = 5 digits, feed error = 5 digits, negative tolerance = 5 digits, positive tolerance = 5 digits and product name = 15 characters.

Total

This function enables local printing on a daily or monthly basis: net total dosed, number of doses, number of off-tolerance doses and mean for each product.

Dosing Log

- > The log can contain up to 9 000 weighings in standard mode or 100 000 weighings with the 2 MB extension option.
- > Each record includes :
 - > date / time / product no. / batch no. / set value / net total dosed / dose status

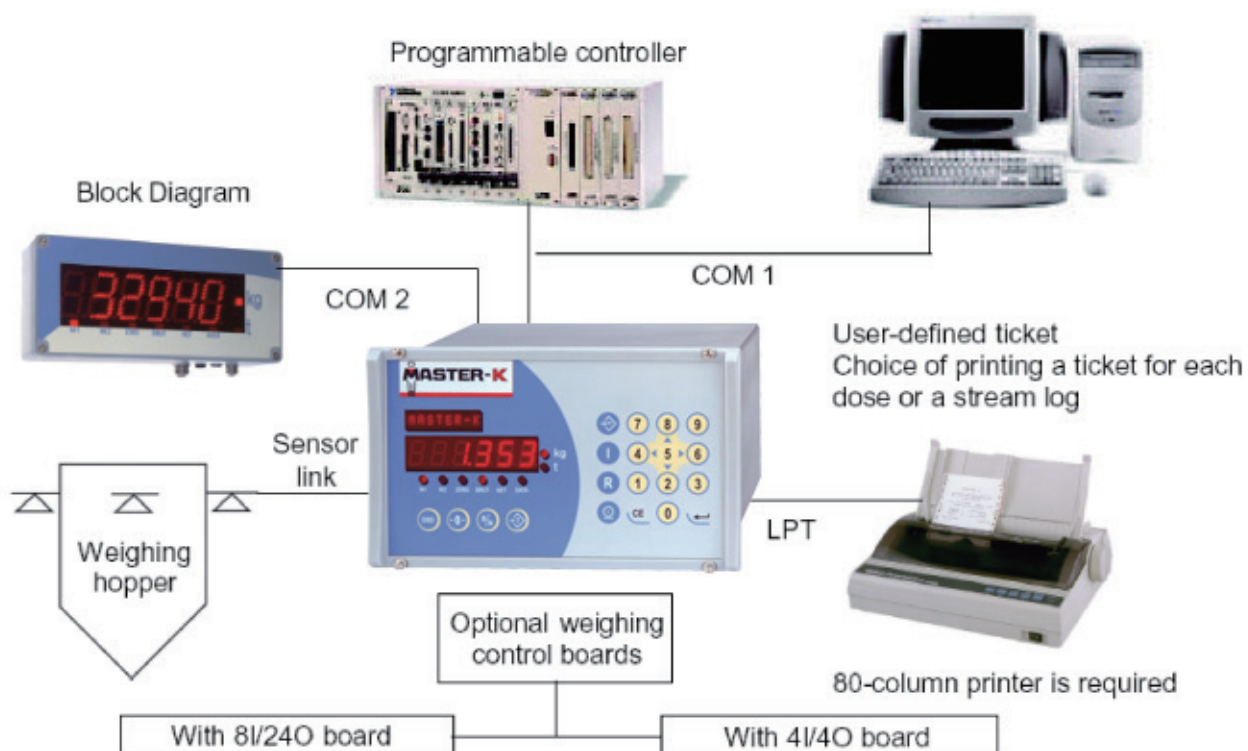
This log can be transmitted by RS 232 link to a PC in TXT format by using the WINDOWS Hyperterminal tools, and it can then be edited in an Excel worksheet.

Printing

An 80-column printer is required to print the weighing log and stream log.

A COMPLETE AND INNOVATING RANGE OF WEIGHING EQUIPMENT...

Synoptique



E1	Start / Resume the cycle
E2	Pause / Cancel the cycle
E3	Dosing authorization
E4	Emptying authorization
E5	(1)
E6	(2)
E7	(4)
E8	(8)

The binary code of dosing product with Start E1

S1	Dosing in progress contact	S13	High threshold
S2	Fault contact(off tolerance or no product)	S14	High speed (HS)
S3	Low speed (LS) / Zero area	S15	Low speed (LS)
S4	High speed (HS) / Emptying or filling	S16	Emptying or filling
S5	Nothing in progress	S17	Reserved
S6	Waiting for dosing authorisation	S18	(1)
S7	Waiting for emptying / filling authorisation	S19	(2)
S8	Low speed (LS) complement	S20	(4)
S9	Cycle paused	S21	(8)
S10	Off-tolerance fault	S22	(16)
S11	Rate fault	S23	(32)
S12	Low threshold	S24	(64)

Code for product being dosed – binary encoded

E1	Start cycle - resume cycle
E2	Pause cycle/cancel
E3	Dosing authorisation
E4	Emptying authorisation
S1	Dosing in progress contact
S2	Fault contact (off tolerance or no product)
S3	Low speed (LS) / Zero area
S4	High speed (HS) / Emptying or filling

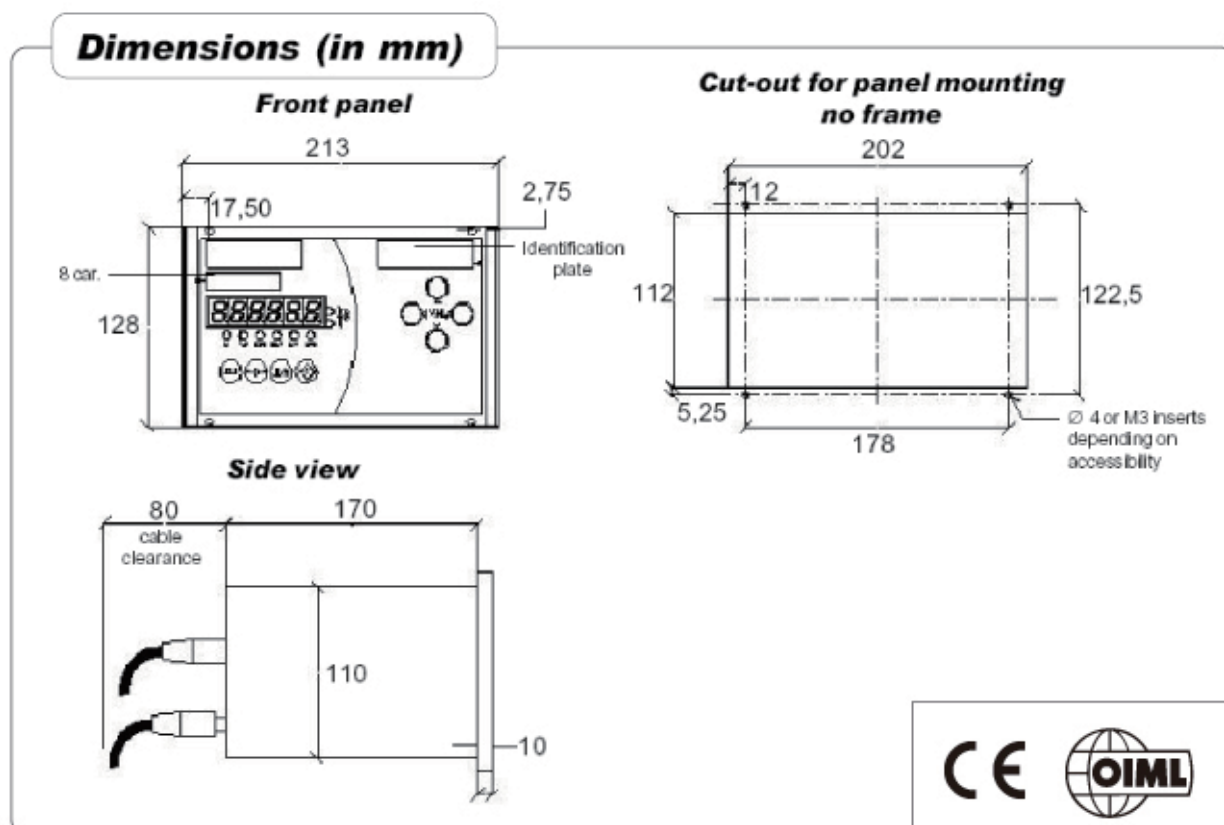
With 0/10 V - 4.20 mA

Sa1 = analogue-signal weight output

A COMPLETE AND INNOVATING RANGE OF WEIGHING EQUIPMENT...

2 BASIC DEVICES	CODE
Ide 200 CCA	050020010
Ide 200 digital sensor	050020050
Single product software	021020040
OPTIONS FAOR ALL MODELS	
RS 485 opt options on COM 2	0500110030
RS 232 opt options on COM 2	0500110020
EXTENSION BOARDS	
4I/4O	0500110120
4I/4O 0-10 V – 4-20 mA	0500110130
8I/24O	0500110110

CHARACTERISTICS	
Power supply	230V - 10+15%
Standard (please indicate in order)	12V±12V=±
Option	24V±24V=±
Power consumption	20 VA
EMC performance	EN 45 501 standard
Standard sensor power supply - IDe 100 CCA version	7.5 V AC square signal
Min. load impedance	45 Ω or 8 350 Ω load cells in parallel
MR smart sensor power supply - IDe 100 CCN	12V =
Operating temperature	-10/+40°C
Storage temperature	-20/+60°C
Timer drift	± 1 min./month
Duration for DSD data retrieval	2 years by lithium battery
DSD capacity	9 000 weighings with Date/Time/Weighing no./
Optional 2 MB memory extension module	Gross/Tare/Net 100 000 weighings
METROLOGICAL CHARACTERISTICS according to Standard EN 45 501	
Max. weighing accuracy	6 000 scale divisions
Internal resolution	60 000 scale divisions
Min. approved scale division voltage value	0.75µV
Measurement rate	60-180 measurements per second
OUT OF LEGAL METROLOGY	
Max. weighing accuracy	10 000 scale divisions
Internal resolution	100 000 scale divisions



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