

Weight controller / indicator

MS100 Weight Controllers provide weighing and control functions for batch Blend or Mix process systems.
Universal use for industrial weight control.

MS100



DESCRIPTION

- Inventory and batching control terminal
- High speed filing , up to 50 samples per second.
- 5 000 000 A/D internal division
- Up to 3 serial ports with printing RS232/RS485
- Ethernet network, Profinet, EIP & Profibus (option)
- External memory by USB key (option)
- Analog output
- Isolated I/O for process control
- Large LED display
- Flash memory for firmware and alibi transaction.
- ATEX explosion aera certified
- Panel mount or waterproof stainless steel enclosure
- 24VDC / 110- 240 V version
- OIML R-76 approved to 3,000d

APPLICATIONS

- Process weighing
- Filling maching special software
- Batch/blend/mix
- Inventory control
- Check weigher
- Dynamique belt scale for bulk

OPTION

- Ethernet network, Profinet, Ethernet IP
- Profibus DP Slave
- External memory by USB key
- Analog output 4-20 mA 0-10 V
- Real time clock

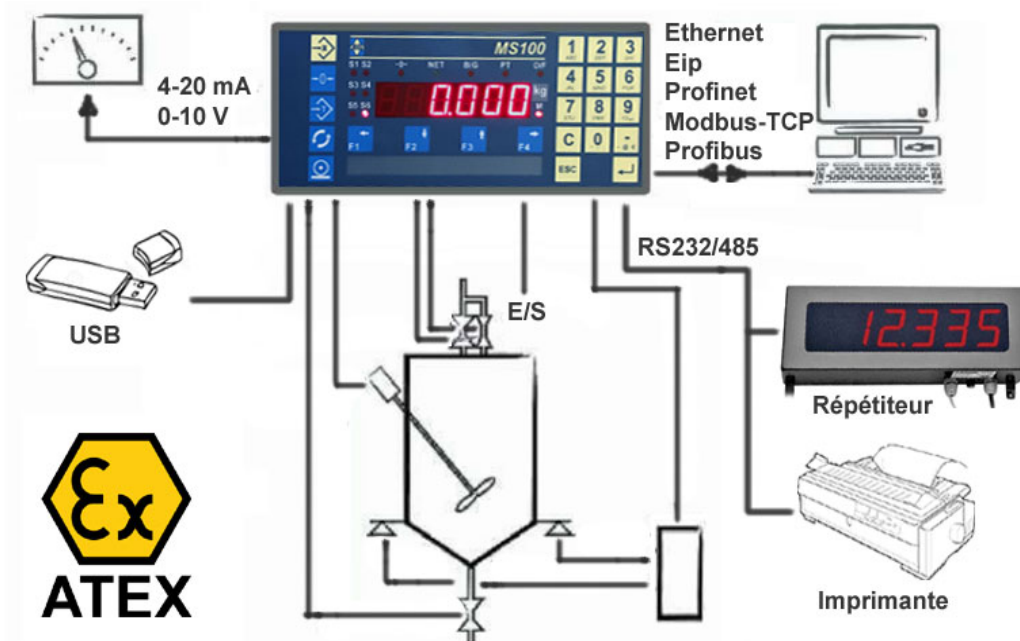
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CONFIGURATIONS



MS100 Industrial Weight Controller & Indicator

PERFORMANCE

Resolution:	Selectable up to 10,000 e or 2 x 3000 e
Conversion Speed:	3 - 70 samples per second (selectable)
Sensitivity:	0.5µV/V approved scales, 0.1µV/V for non-approved scales.
Full Scale Range:	-0.25 to 2mV/V [-1.25mV to -20mV] 10 VCC power load cell
Linearity:	0.002% of full scale
Long Term Stability:	0.005% of full scale per year
Excitation:	+10Vcc with sense (6 wires)
Number of Cells:	Up to 10, 350 ohm load cells
Filter:	FIR automatically adjusted to conversion speed, rolling average.
Offset Drift:	< 2ppm/°C
Span Drift:	< 2ppm/°C
A/D Converter Type:	Sigma-Delta, ratiometric
Count By:	x1, x2, x5, x10, x20, x50
Decimal Point:	between any digits of the weight display
Calibration Methods:	dead load and span, or data sheets calibration, via the mV/V output values of the load cell. Auto-Calibration
Weighing Functions:	automatic zero tracking, motion detection, auto-zero on power-up, zero tare, multiple test functions.
Memory Allocation:	calibration data EEPROM (128kb), Flash tally-roll (Alibi) memory capable of 40,000 weight registrations
Wiring Connections:	Sub D-type connectors

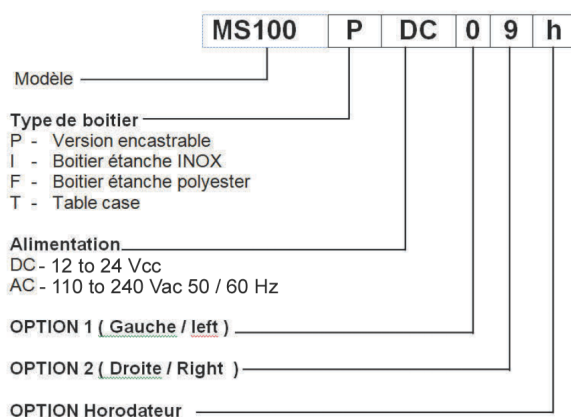
ENVIRONMENTAL

Operating Temp:	-10 °C to +40 °C [14 °F to 104 °F]
Storage Temp:	-10 °C to +70 °C [-4 °F to 158 °F]
Relative Humidity:	40-90% RH, non-condensing

DISPLAY and KEYBOARD

Display:	6 digit, 7 segment, LED
Digital Height:	16 mm [0.56 in.]
Status Enunciators:	no motion, zero, tare in use, net, setpoint in operation
Weight Digits:	4, 5 or 6 (setup selectable)
Keyboard:	11 membrane keys + numerical pad

ORDERING INFORMATION



Option board (Max 2)

0	No option
1	Analog output 4-20 mA / 0-10V
2	Serial com. RS232/RS485 (#2)
3	Ethernet Modbus TCP V1
4	Profibus
5	BCD +V commun
6	BCD 0V commun
7	BCD 0V commun inverse
9	Ethernet Modbus TCP V2
A	USB
8	PROFINET / ETHERNET IP
h	Real time clock

Software

1	Standard weighing, basic batch
2	Dynamic axle scale
3	Batch & automatic filling High / low speed and recipe
4	Belt scale totalizer for bulk
5	1 + Alibi with 1 reference
6	1 + Alibi with 2 references
10	Mix 4 ingredient + recipe
11	Dynamic scale marine (G compensation)
12	Dynamic check weigher
14	Truck scale

ELECTRICAL

Voltage: 12-24 VDC (standard) 110-240V 50/60 hz
Current: 500mA

ATEX version

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ISOLATED ANALOG OUTPUT (OPTIONAL)

Resolution:	16 bit DAC
Voltage Output:	0.02-10V
Current:	0-20mA or 4-20mA
Linearity:	0.01% (or better) of full scale
Thermal Stability:	50ppm/°C typical

INPUTS & OUTPUTS

(x4) Logic Input:	9-24 VDC, négativ common, opto-isolated to 2.5KV.
(x2) Relay Output:	Max 240 VAC 0,5A or 24VDC 3A
(x6) with extension Option card	opto-isolated to 2.5KV, Programmable : setpoints, cycle...

SERIAL COMMUNICATION

Serial Output #1:	RS-232, non-programmable
Baud Rate:	Up to 57 800 baud, full duplex
Applications:	
Serial Output (option):	RS-232 or RS-485 setup programmable
Baud Rate:	57800 baud, full duplex
Applications:	Modbus RTU, Eric, PT6 S2 protocol, continuous output, remote printer, weight output

ENCLOSURE

MS100 P panel mount enclosure:

Dimensions:	204x80x85 mm LxHxD
Cutting opening :	138x67 mm
Protection:	IP65 front panel cover - IP54

MS100 T Stainless Steel enclosure & ATEX version :

Dimensions:	210x80x220 mm LxHxD
Mounting:	Orientable wall mount with bracket
Protection:	IP65

APPROVALS (ACCURACY CLASS III & IIII)

OIML R-76:	3,000 d single or dual interval EU-type approval no. LNE TC 7014
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