

## I 200 Ex Indicator



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#### I 200 M Ex



## General presentation

The I 200 Ex indicator is adapted for weighing installations in hazardous areas. It complies with the ATEX 94/9/CE directive and may be installed in hazardous areas for risks related to the presence of dust (zone 20, 21 or 22) or gas (zone 1 or 2).

The I 200 Ex indicator power supply may be different depending on your installation and operation constraints:

- Power supply with intrinsic safety outside hazardous areas : ISIS 2
- An I200 Ex P1/P1-S power supply in hazardous areas.
- A BATSI rechargeable battery for mobile weighing stations.

The I 200 Ex indicators range is composed of two models :

- I 200 B Ex (Counting, Preset tare, etc.)
- I 200 M Ex (Simple weighing: reception, shipping, transport, etc. Counting with or without tolerance control, Formulation, Control + -, Animal weighing, Calculation, ...). Memorization of 10 preset tare values.

As an option, I 200 Ex indicators are provided with a data storage device in which all weighings made can be recorded, thus avoiding the addition of a control printer (tally roll printer).

The I 200 Ex indicator is all 304 L STAINLESS STEEL and is specially designed for severe industrial environments.

It is protected according to IP 66\* rate (dus tight and resistant to water jets), and this model is ideal for satisfying hygiene and cleanliness requirements of the agronomic-food processing industry, and Chemicals and Pharmaceutical industries.



### Metrological approval

Test certificate issued by a notified body in accordance with the Directive 90/384/EEC relating to non automatic weighing instruments.



### ATEX certification

Marking: EEx ia II B/C T4 II 1 G/D II C T4 if only one measurement channel and P1, P1-S or ISIS 2 power supply and no serial link.

**II B T4** if other configurations: double channel, DSD storage, serial link, battery power supply.



### European conformity

- Directive 89/336/CEE relating to ElectroMagnetic Compatibility
- Directive 2006/95/CEE relating to Low Voltage equipment
- Directive 94/9/CEE relating to instruments and protection systems designed for use in hazardous areas.

# Housing

Design

- Stainless steel housing.
- Adjustable wall, column or table fixing kit delivered as standard equipment.

#### 1200 B Ex:

#### 7-key leak-tight touch sensitive keyboard



- 1. Off.
- 2. On.
- 3. Other accessible functions defined by configuration.
- 4. Tare, zero or combined tare/zero defined by configuration.
- 5. Print command.
- 6. Select operating mode: simple weighing, counting, preset tare.
- 7. Configurable function bar (your most frequently used function).

#### Display screen backlit by red LEDs

Character height: 25.4 mm



#### 1 200 M Ex:

#### 21-key leak-tight touch sensitive keyboard



- 1. Off.
- 2. On.
- 3. Other accessible functions defined by configuration.
- 4. Tare, zero or combined tare/zero defined by configuration.
- 5. Print command.
- 6. Numeric keypad with decimal point and error correction.
- Multifunction keys for defining settings for the weighing function and weighing control.
- 8. Configurable function bar (your most frequently used function).

Use is based on the 3 multi-function keys and a complete display screen capable of simultaneously displaying all current weighing information and also all combined information about previous weighings.

- Metrological information about the current weighing.
- Calculated information about the current weighing.
- Accumulated control information about batch weighings.

#### Operation

The I 200 EX indicator may be equipped with the following optional outputs in the factory:

- measurement (double channel indicator),
- serial link to peripheral outside hazardous areas : passive current loop connection to ISIS 2 intrinsic safety interface.
- Serial link to D200 Ex slave display in hazardous areas : passive current loop.

<sup>\*</sup> Connections according to IP 67 rate.

### Technical characteristics

#### Physical characteristics

Dimensions	
• Width	247 mm
Height	231.3 mm
• Depth	
Dimensions for table or wall mounting kit (kit	delivered standard)
• Width	247 mm
Height	231.3 mm
Denth	148 2 mm

#### Electrical characteristics

Power supply by mains adaptor :     Mains power supply voltage     Frequency     Consumption	190 - 250 \ 48 - 51 Hz 4 VA max.
BATSI battery power supply (option) Operational duration without backlighting Operational duration with backlighting	

#### Metrological characteristics

	ML	HML
Accuracy class (Trade use only)	Ш	-
Increment value	0,5 μV	0.1 μV
Maximum number of increments :		
Single range	6 000	30 000
Dual range	2 x 3 000	-
Power supply voltage	5 V	dc
Load cell impedance		
Minimum	48	Ω
Maximum	1 00	0 Ω
Maximum load cell cable length	150	m
Error spreading pi factor	0.5	-

#### Environmental characteristics

Temperature range	
Operation	- 10 °C / + 40 °C
	- 20 °C / + 60 °C
■ Industrial protection rating	IP 66

#### File characteristics

Data storage (DSD) in option :

Stored data: DSD No., gross, tare, net weight, preset tare, printed weight type, weight type transmitted by protocol, unit, identification number.

#### Standard contents of the delivery

- I 200 Ex indicator equipped with a measurement accessory.
- Adjustable fixing kit (wall or table mounting).
- User's manual.

### Power supplies

#### The ISIS 2 intrinsic safety power supply

The ISIS 2 intrinsic safety interface performs 2 functions :

- · Power supply interface with intrinsic safety
- Intrinsic safety interface for RS232/RS422 serial link

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Width	105 mm
Height	45 mm
Depth	170 mm

- Assembly on DIN rail
- Power supply : 220 V 50-60 Hz
- Marking: [EEx ia] II C II (1) G/D

#### BATSI intrinsic safety power supply

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- Width	255 mm
- Height	125 mm
- Depth	125 mm

Marking : EEx ia II B T6 II 1 G/D

### 1200 Ex P1/P1-S power supply in hazardous areas

Dimensions :	I200 Ex P1	I200 Ex P1-S

- Width	125 mm	150 mm
- Height	80 mm	150 mm
- Depth	57 mm	81 mm

Power supplies

Power supply : 220 V 50-60 Hz

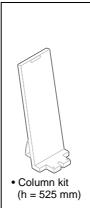
Marking: EEx em [ib] II C T6 II 2 (2) GD

# Options & Accessories

Interface accessories



- Measurement board
- Passive current loop serial link (BCPSI) for link on D200 Ex slave display or for RS 232/RS 422 connections through ISIS 2 intrinsic safety interface.
- Data storage device DSD Ex 48 000 records



Fixing kit





### Your weighing specialist -

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