



I 200 B Ex



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 0, 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 or ALSI power supply with intrinsic safety for installation requiring high power (double channel indicator, long power supply cable*...)
- An ALX or ALSI power supply in hazardous areas (zone 2 or 22).
- 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 (dust 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 LNE 01-03.
- Mentioned in the CE approval certificate type X201-A. No. F-01-A-005

ATEX certification

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

European conformity

- Directive 90/384/CEE relating to *Non-Automatic Weighing Instruments*
- Directive 89/336/CEE relating to *ElectroMagnetic Compatibility*
- Directive 73/23/CEE relating to *Low Voltage equipment*
- Directive 94/9/CEE relating to instruments and protection systems designed for use in hazardous areas.

* Please call us

** Connections according to IP 67 rate.

Design

Housing

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

I 200 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).

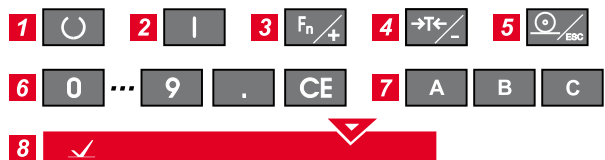
Display screen backlit by red LEDs

Character height : 25.4 mm



I 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.
7. 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 : active current loop connection to ISIS 2 intrinsic safety interface.
- Serial link to D200 Ex slave display in hazardous areas : passive current loop.

Physical characteristics

- ▣ Dimensions
 - Width 247 mm
 - Height 231.3 mm
 - Depth 97 mm
- ▣ Dimensions for table or wall mounting kit (kit delivered standard) :
 - Width 247 mm
 - Height 231.3 mm
 - Depth 148.2 mm

Electrical characteristics

- ▣ Power supply by mains adaptor :
 - Mains power supply voltage 190 - 250 V
 - Frequency 48 - 51 Hz
 - Consumption 15 VA max.
- ▣ BATSI battery power supply (option)
 - Operational duration without backlighting 40 h
 - Operational duration with backlighting 24 h

Metrological characteristics

	ML	HML
▣ Accuracy class (Trade use only)	III	-
▣ 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	1 000 Ω	
▣ Maximum load cell cable length	150 m	
▣ Error spreading pi factor	0.5	-

Environmental characteristics

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

File characteristics

- Data storage (DSD) in option :
- ▣ Maximum number of records 48 000

Values saved : DSD No., gross , tare, net weight, preset tare, printed weight type, type of weight 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

- ▣ Dimensions :
 - Width 105 mm
 - Height 45 mm
 - Depth 170 mm

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

ALSI intrinsic safety power supply

The ALSI intrinsic safety interface is necessary when the installation requires a high power supply (long power supply cable , double channel indicator.)

- ▣ Other information : *please call us*

BATSI intrinsic safety power supply

- ▣ Dimensions :
 - Width 255 mm
 - Height 125 mm
 - Depth 125 mm

- ▣ Marking : EEx ia II B T6 II 1 G/D

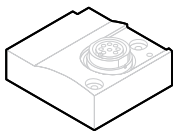
ALX power supply in hazardous areas

- ▣ Dimensions :
 - Width 340 mm
 - Length 190 mm
 - Height 170 mm

- ▣ Power supply : 220 V 50-60 Hz
- ▣ Marking : EEx ed [ib] II C T6 II 1 G

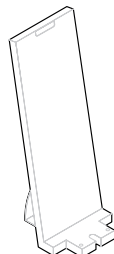
Options & Accessories

▣ Interface accessories



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

▣ Fixing kit



- Column kit (h = 525 mm)

▣ Slave displays

- D 200 Ex



▣ Power supplies



- ALX



- BATSI

Your weighing specialist

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