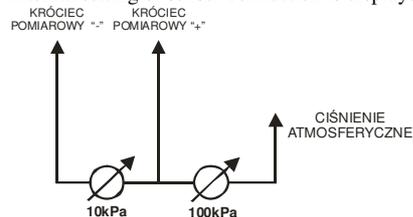


MC-10/100-2/Ex Pressure Meter



The MC-10/100-2/Ex pressure meters are electronic devices equipped in two pressure converters, one for differential pressure with ± 10 kPa measuring range, and another for relative pressure with ± 100 kPa measuring range.

Internal setting of sensor connection is displayed below.



This sensor connections setting allows for measuring pressure inside the pipeline in relation to atmospheric (± 100 kPa) and differential pressure on measuring orifice plate installed on that pipeline (± 10 kPa).

The MC-10/100-2/Ex has a user-selectable unit of pressure function, HOLD function capturing the current reading displayed on the meter, an internal memory of last 64 results displayed with „HOLD” function.

Thanks to the IP65 protection degree air-tight enclosure, the device can be used in areas of increased dust and humidity.

The meter has filters to protect against dirt, dust or liquids inside input connections.

The MC-10/100-2/Ex is powered by an internal battery which allows for long operating time.

Measuring points can be connected to the meters with flexible hoses of 5÷8 mm inner diameter.

Meters suitable for other types of connections can also be supplied.

Each MC-xxx/Ex meter is complete with a leather case.

The MC-10/100-2/Ex have been designed in compliance with PN-EN60079-0 „Electrical apparatus for explosive gas atmospheres - Part 0: General requirements” and PN-EN60079-11 „Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” ” in order to allow its use in potentially explosive atmospheres in mining, gas and chemical industries.

Thanks to the air-tight enclosure, the device can be used in areas of increased dust and humidity.

Technical data:

1. Pressure measurement:

- Sensor I
 - ✓ Measuring range ± 10 kPa
 - ✓ Resolution 0,01 kPa
 - ✓ Accuracy 0,4%+0,01
 - ✓ Maximum input pressure +140 kPa/-100 kPa
- Sensor II
 - ✓ Measuring range ± 100 kPa
 - ✓ Resolution 0,1 kPa
 - ✓ Accuracy 0,4%+0,1
 - ✓ Maximum input pressure +140 kPa/-100 kPa
- Class 0,4
- Temperature deviation within 25 ÷ 50 °C < 1%
- Response time: 1 ms
- Linearity: 0,2% of range
- Hysteresis: $\pm 0,2$ % of range
- Measuring connections: flexible hose ID 5 ÷ 8 mm

2. Power supply:

- Power autonomy: min. 48 hours of continuous operation
- Battery signalling: indicator
- Power source: battery 6LR61 9V
- Current consumption: 6,5 mA – without backlight
15 mA – with backlight

3. Operating conditons:

- Ambient temperature: -10 ÷ 50 °C
- Relative humidity: 0 ÷ 90 %RH
- Atmospheric pressure: 800 ÷ 1200 hPa
- Protection degree: IP65
- Explosion-proof features:
 - Ex I M1 Ex ia I
 - Ex II 2G Ex ia IIB T4
- Approval ref: OBAC 07 ATEX 393X

4. Further information:

- Display type: graphic 132x32
- Backlight: LED white
- Unit selection: kPa, hPa, cm H₂O, mm H₂O, inch H₂O, mm Hg, PSI, mBar, Bar
- Internal memory: 64 last records, with date and time of measurement
- Integrated real-time clock
- Automatic power-off on prolonged zero-reading
- Dimensions (without case and connections): 178 x 83 x 35 mm
- Weight: 250g
- Standard package: leather case