

# Digital Pressure Meter

PM205

- Range: from -1 to 1000 bar, selectable bar/psi
- Accuracy < 0.1 % FS
- 1000 hours continuous operation, auto power off
- High reliability, high resistance against shocks
- Protection class: IP65
- Well suited for marine and industrial applications
- Type approved by DNV-GL for use onboard ships



The PM205 - digital pressure meter is a microprocessor controlled, accurate and versatile digital pressure measuring and calibration instrument with integrated fast peak-, max.- and min.- function.

The instrument is used in two modes:

**MANO-Mode:** The pressure is measured twice per second and displayed. The top display indicates the actual pressure, the bottom display shows the MAX.- or MIN.- pressure since the last RESET.

**PEAK-Mode:** The pressure is measured 5,000 times per second and is brought to the display twice per second.

The PM205 has a ZERO function that allows the user to set any value as a new zero reference. Barometric pressure variations can thus be compensated. The digital pressure meter is supplied with an internal battery with 1000 hours continuous operation in MANO-Mode, guaranteed by the AUTO SWITCHOFF function, which activates if no key inputs are detected within the previous 15 minutes.

This digital pressure gauge finds its specific utilization in marine industry, onboard ships and mobile offshore units and in general manifold industrial fields.

The PM205, supplied with all relevant certificates, will serve as a valuable first line pressure calibration and measurement instrument.


# Technical information

| Range         | Resolution | Overpressure |
|---------------|------------|--------------|
| -1 to 3 bar   | 1mbar      | 10 bar       |
| -1 to 30 bar  | 10 mbar    | 60 bar       |
| -1 to 60 bar  | 10 mbar    | 120 bar      |
| 0 to 300 bar  | 100 mbar   | 400 bar      |
| 0 to 700 bar  | 200 mbar   | 700 bar      |
| 0 to 1000 bar | 200 mbar   | 1000 bar     |

|                                 |   |
|---------------------------------|---|
| Accuracy RT (room temperature)  | < 0,1 %FS   |
| Total Error Band (0 to 50 °C)   | < 0,2 % FS  |
| Storage-/ Operating Temperature | -20 to 70 °C / 0 to 50 °C   |
| Compensated Temperature Range   | 0 to 50 °C  |
| Power supply                    | 3.0V type CR2430  |
| Auto power off                  | 15 min.   |
| Battery life                    | 1000 hours continuous operation<br>MANO-Mode 150 hours of continuous operation in PEAK-Mode |
| Standard process coupling       | ¼" BSP MALE, Swivel   |
| Dimensions                      | 118mm (h) x 42mm (d), ø76mm (w)   |
| Weight                          | 0,21 kg   |
| Display                         | LCD   |
| Selectable read out             | bar, mbar/hPa, kPa, MPa, PSI, kp/cm2  |
| Peak function                   | Max. or Min.  |
| Zero function                   | Yes   |
| Readings per second             | 5000 (PEAK mode)  |
| Protection class (CEI 529)      | IP65  |

## Intrinsically safe version, 94/9/CE

Classification:  I G EEx ia IIC T6 or T5

Certification File: LCIE 01 ATEX 6001 X

The EEx ia version of PM205 incorporates an additional protection switch.

Functions, ranges and accuracy are identical to the standard version.

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