



DIGITAL MANOMETER

WITH PEAK RECORDING / PEAK MEASURING RATE: 5 kHz

LEO 1 LEO 1 Ei

LEO 1 is a micro-processor controlled, accurate and versatile digital pressure measuring 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 top display shows the actual pressure, the bottom display the peak- (MAX.) or trough-pressure (MIN.).

LEO 1 has two operating keys. The left key is to turn the instrument on, to select the functions and the pressure units. The right key executes the selected function or unit. The right key is also used to switch between the MAX.- and MIN.-value in both modes.

The instrument has the following functions:

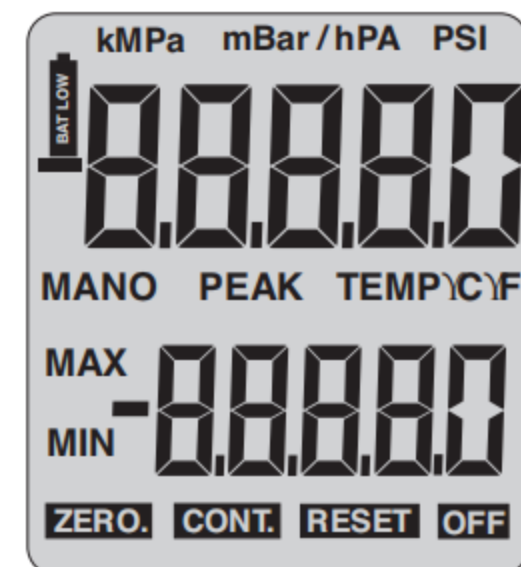
RESET With the RESET-function, the MAX.- and MIN.-value is set to the actual pressure value.

ZERO The ZERO-function allows to set any value as a new Zero reference. Barometric pressure variations can thus be compensated. The factory setting of the Zero for the ranges -1...3 bar or -1...30 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with the ranges > 30 bar are calibrated with ambient pressure as a Zero reference.

CONT The instrument turns off 15 Min. after the last key function. Activating CONT (Continuous) deactivates this automatic turn-off.

UNITS All standard instruments are calibrated in bar. The pressure can be indicated in the following units: bar, mbar/hPa, kPa, MPa, PSI, kp/cm²

Optional accessories: - Protective rubber covering
- Carrying bag



Display Segments LEO 1



SPECIFICATIONS

| Pressure Ranges, Resolution, Overpressure: | Range | Resolution | Overpressure |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| | -1...3 bar | 1 mbar | 10 bar |
| | -1...30 bar | 10 mbar | 60 bar |
| | 0...300 bar | 100 mbar | 400 bar |
| | 0...700 bar | 200 mbar | 700 bar |
| | 0...1000 bar | 200 mbar | 1000 bar |
| Accuracy RT (room temperature) * | < 0,1 %FS | | |
| Total Error Band (0...50 °C) | < 0,2 %FS | | |
| Storage- / Operating Temperature | -20...70 °C / 0...50 °C | | |
| Compensated Temperature Range | 0...50 °C | | |
| Supply | 3 V battery, type CR 2430 | | |
| Battery Life | <ul style="list-style-type: none"> • 1'000 hours continuous operation in Mano-Mode • 150 hours continuous operation in Peak-Mode | | |
| Pressure Connection | G1/4" | | |
| Protection, CEI 529 | IP65 | | |
| Diameter x Height x Depth | 76 x 118 x 42 mm | | |
| Weight | ≈ 210 g | | |

* Including linearity, repeatability and hysteresis.

LEO 1 Ei

Intrinsically safe version, 2014/34/EU

Classification: II 1 G Ex ia IIC T5 Ga
Certification File: LCIE 01 ATEX 6001 X
IECEX LCIE 18.0035 X

The Ex-protected LEO 1 can only be operated with the RENATA CR2430 battery.

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

