## 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.
- <u>ZERO</u> 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.

Range

-1...3 bar

-1 30 bar

- <u>CONT</u> The instrument turns off 15 Min. after the last key function. Activating CONT (Continuous) deactivates this automatic turn-off.
- <u>UNITS</u> All standard instruments are calibrated in bar. The pressure can be indicated in the following units: bar, mbar/hPa, kPa, MPa, PSI, kp/cm<sup>2</sup>

Optional accessories: - Protective rubber covering (not for Ei-version) - Carrying bag

#### SPECIFICATIONS

Pressure Ranges, Resolution, Overpressure:

Accuracy RT (room temperature) \* Total Error Band (0...50 °C) Storage- / Operating Temperature Compensated Temperature Range Supply Battery Life

Pressure Connection Protection, CEI 529 Diameter x Height x Depth Weight

\* Including linearity, repeatability and hysteresis.



0300 bar	100 mbar	400 bar
0700 bar	200 mbar	700 bar
01000 bar	200 mbar	1000 bar
< 0,1 %FS		
< 0,2 %FS		
-2070 °C / 050 °C		
050 °C		
2 V bottony type CB 2420		

**Resolution** 

1 mbar

10 mbar

3 V battery, type CR 2430 • 1'000 hours continuous operation in Mano-Mode • 150 hours continuous operation in Peak-Mode G1/4" IP65 76 x 118 x 42 mm ≈ 210 g





Display Segments LEO 1

#### LEO 1 Ei

ſF

Overpressure

10 bar

60 bar

Intrinsically safe version, 94/9/CE

Classification: 😧 II 1 G EEx ia IIC T6 or T5 Certification File: LCIE 01 ATEX 6001 X

1705

E515

The EEx ia version of LEO 1 incorporates an additional protection switch.

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

