

# LEO 2 / LEO 2 Ei



## DIGITAL MANOMETER

WITH MAX.- AND MIN.-FUNCTION: 5 kHz / ACCURACY: 0,1%

LEO 2 is a compact, micro-processor ( $\mu\text{P}$ ) controlled, highly accurate and versatile pressure measuring instrument with digital indication. The piezoresistive pressure transducer as the heart of the instrument has gone through extensive pressure- and temperature tests. Its characteristics are stored in the instruments internal EEPROM. The  $\mu\text{P}$  of the LEO 2 reads the characteristic values and calculates there from the pressure to an accuracy of 0,1 % over the temperature range of 0...50 °C.

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.

LEO 2 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.

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 0...300 bar, 0...700 bar are calibrated in a sealed gauge mode with 1 bar absolute 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/cm<sup>2</sup>

LEO 2 has 7/16" UNF male thread and is delivered complete with an O-ring seal swivel fitting which allows LEO 2 to be rotated through 360°. Only minimal tightness is needed to seal up to 300 bar. Process pressure connection is G 1/4" male.



"Swivel"



Adapter G1/4"



## 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

Accuracy *	0,1% FS typ. 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	1'000 hours continuous operation
Pressure Connection	7/16"-20UNF (adapter G 1/4" included)
Protection, CEI 529	IP 65
Diameter x Height x Depth	59 x 95 x 32 mm
Weight	125g

\* Includes linearity, repeatability, hysteresis, temperature error and resolution of the display.  
Does not include Zero Stability.

## ACCESSORIES (OPTIONAL):

Protective rubber covering and carrying bag.  
The protective rubber covering is suitable for

Subject to alterations

## LEO 2 Ei

**Intrinsically safe version, 94/9/CE (ATEX 100a)**

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

The EEx ia version of LEO 2 incorporates an additional protection switch. Functions, ranges and accuracy are identical to the standard version.



toughest