

DIGITAL PRESSURE GAUGE LEO 2 ACCURACY 0,2% MIN AND MAX FUNCTION

LEO2 is a compact, micro-processor 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 micro-processor 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 MÁX.- and MIN.- value.

The instrument has the following functions:

1. RESET: With the RESET-function, the MÁX.- and MIN.- value is set to the actual pressure value.

2. ZERO: The ZERO-functions allows the 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 or 0...700 bar are calibrated in a sealed gauge mode with 1 bar absolute pressure as a Zero reference.

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

4.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

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.

SPECIFICATIONS:

Range	Resolution	Overpressure
-1...+3 bar	1 mbar	type. 4 mbar, max. 6 mbar
-1...+30 bar	10 mbar	type. 30 mbar, max. 60 mbar
0...300 bar	100 mbar	type. 0,3 bar, max. 0,6 bar
0...700 bar	200 mbar	type. 0,7 bar, max. 1,4 bar

The EEx ia version of LEO2 incorporates an additional protection switch. Functions ranges and accuracy are identical to the standard version.

Accuracy: 0,1% ES type. (0,2% ES max.)

Storage/Operating temperature: -30...80°C / 0...50°C

Compensated temperature range : 0...50°C

Supply: 3V battery type CR 2430

Battery Life: 1400 hours continuous operation.

Pressure connection: 7/16"-20UNF (adapter G1/4" included)

Protection, CEI 529: IP65

Diameter x Height x Depth: 59x95x32 mm

Weight: ≈125 g



Adapter G1/4"

This publication does not try to establish the bases of a contract and the company keeps the right to modify without previous notice the design and the specifications of the instruments, in accordance with his politics of continued development.

MEI Manometría e Instrumentación, s.l.

Pol. Ind. "El Pla" C/ Comerç, 2-22 nave 13 E-08980 Sant Feliu de Llobregat Barcelona Spain

Tf. +34 934 403 939 Fax. +34 934 483 986 www.mei.es e-mail: info@mei.es