

## DIGITAL MANOMETER

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

LEO 2 is a compact, micro-processor ( $\mu$ 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  $\mu$ P of the LEO 2 reads the characteristic values and calculates therefrom the pressure to an accuracy of  $< 0,1$  %FS at room temperature.

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 ranges  $> 30$  bar are calibrated in a sealed gauge mode at ambient pressure.
- 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 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.

Optional accessories: - Protective rubber covering  
- Carrying bag



"Swivel"



Adapter G 1/4"

### 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 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                              | 1'000 hours continuous operation       |            |              |
| Pressure Connection                       | 7/16"-20 UNF (adapter G 1/4" included) |            |              |
| Protection, CEI 529                       | IP 65                                  |            |              |
| Diameter x Height x Depth                 | 59 x 95 x 32 mm                        |            |              |
| Weight                                    | $\approx 125$ g                        |            |              |

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

### LEO 2 Ei

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

Classification: Ex II 1 G 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.

