



# KELLER

## DIGITAL MANOMETER

PEAK MEASURING RATE: 5 kHz / ACCURACY: 0,2%

## LEO 1

a Mano 2000 product

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:

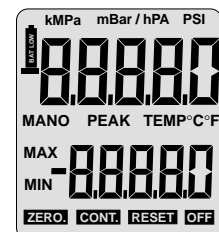
**RESET:** With the RESET-function, the MAX.- and MIN.-value is set to the actual pressure value.

**ZERO:** Any value can be set as a new Zero reference. The instruments are calibrated in a sealed gauge mode with 1 bar absolute pressure as a Zero reference. The ZERO allows to compensate for the variation of the barometric pressure or to transfer LEO 1 in an absolute measuring mode by applying a vacuum and executing the zero.

**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, PSI, kPa, MPa.

Accessories (optional): Protective rubber covering and carrying bag.



Display Segments LEO 1

### SPECIFICATIONS

Pressure Ranges, Resolution:	Range	Resolution	Overrange*	Overpressure
	-1...3 bar	1 mbar	3,5 bar	10 bar
	-1...30 bar	10 mbar	35 bar	60 bar
	0...300 bar	100 mbar	400 bar	400 bar
	0...1000 bar	200 mbar	1000 bar	1000 bar

\* the indication is guaranteed in the overrange.

Accuracy (incl. linearity, repeatability, hysteresis):	< 0,2 % FS (< 1% FS in overrange)
Storage- / Operating Temperature	-30...80 °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"> <li>• 1400 hours continuous operation in Mano-Mode</li> <li>• 180 hours continuous operation in Peak-Mode</li> </ul> "BAT LOW" warning on display.
Pressure Connection	G1/4"
Protection, CEI 529	IP65
Diameter x Height x Depth	76 x 118 x 42 mm
Weight	≈ 210 g



Subject to alterations

9/00

**KELLER AG für Druckmesstechnik**  
KELLER Gesellschaft für Druckmesstechnik mbH

St. Gallerstrasse 119  
Schwarzwaldstrasse 17

CH-8404 Winterthur  
D-79798 Jestetten

Tel. 052 - 235 25 25  
Tel. 07745 - 9214 - 0

Fax 052 - 235 25 00  
Fax 07745 - 9214 - 50