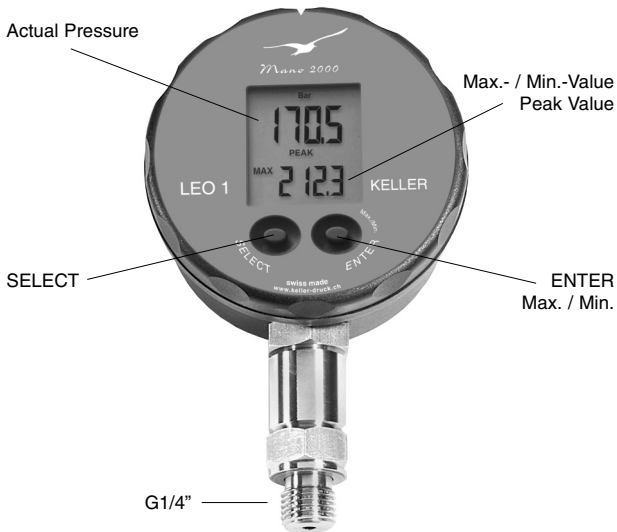


# LEO 1

Digital Manometer with Peak Value Detection  
and Max.-/Min.-Display.

Accuracy: 0,2% FS typ.



LEO 1 has two operating keys. The left key (SELECT) serves to select the functions and the pressure units. The right key (ENTER) activates the selected function or pressure unit. The right key is also used to switch between the MAX.- and MIN.-value in both the Mano- and Peak-mode.

**Turn-on:** Pressing the SELECT key turns the instrument on. The instrument subsequently displays the software version (year/week), the full-scale pressure range, the actual pressure (top display) and the last measured MAX.-value (bottom display).

The instrument has the following functions:

**RESET:** Max.-/Min.-value and Peak-value are set to the actual pressure

**OFF:** Turns off the instrument

**MANO:** Releases the following functions:

**PEAK off:** Normal measuring mode with 2 measurements per second

**PEAK on:** Fast measuring mode with 5000 measurements per second

**ZERO SET:** Sets a new Zero reference

**ZERO rES:** Sets the Zero to factory setting

**CONT on:** Deactivates the automatic turn-off function

**CONT off:** Activates the automatic turn-off function (the instrument turns off 15 minutes after the last key function)

followed by the unit selection: **bar, mbar/hPa, kPa, MPa, PSI**

Example: Setting a new Zero Reference:

- > Turn on the instrument by shortly pressing the SELECT-key.
- > Wait for the instrument's measuring mode (approx. 3 seconds).
- > Press the SELECT-key 3 times: **MANO** appears.
- > Press ENTER: **PEAK on** or **PEAK off** appears.
- > Press SELECT: **ZERO Set** appears.
- > Press ENTER: The new Zero reference is set. The instrument returns to the measuring mode.

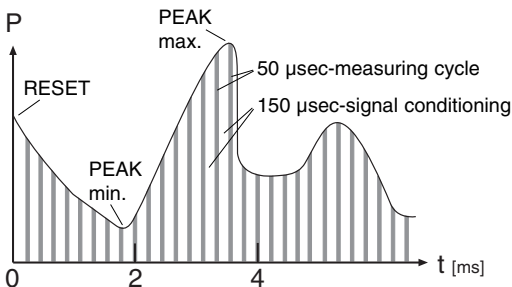
## Display of the Minimum Pressure Value

When in the measuring mode (Display: Actual Pressure and Max.-value), you may display the Min.-value for 5 seconds by shortly pressing the ENTER-key.

### Notes

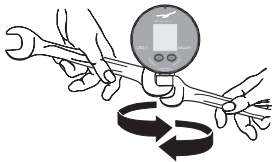
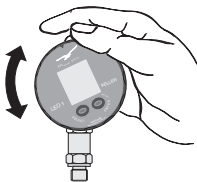
- 1) The functions and units can also be called up by keeping the SELECT-key depressed. Releasing the key enables the displayed function or unit to be activated with the ENTER-key.
- 2) If the selected function or unit is not activated within 5 seconds with the ENTER-key, LEO 1 returns to the measuring mode without changing any settings.
- 3) Turning LEO 1 on and off does not influence any of the previous settings.
- 4) If the **PEAK on** or **CONT on** function is activated, it is indicated with a flashing sign on the display.
- 5) If a pressure can not be represented on the display, **OFL** (overflow) or **UFL** (underflow) appears on the display.
- 6) If the actual pressure goes beyond the measuring range, the last valid pressure value starts flashing on the display.

## Measuring Procedure of the Peak-Mode



## Installation

Screw the G1/4 male port of LEO 1 into the female pressure port and tighten using the lower hexagon of the transducer. Loosen the upper hexagon and rotate the LEO 1 to the desired position. Retighten.



The face of LEO 1 can be rotated through 355°. This feature allows the LEO 1 to be mounted in all possible positions; vertical, horizontal or upside down.

## Battery Change / Battery Life

When the battery starts weakening, a low battery warning (BAT LOW) will appear in the upper left corner of the display.

Battery change: Open the instrument (turn the display ring beyond the limit stop). Open the battery compartment and change the battery (type CR 2430). Make sure that the O-ring remains embedded in the cover.

The battery life is 150 hours in Peak-mode (at continuous operation) and 1000 hours in normal measuring mode.

## Ranges / Calibration

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.