



## DIGITAL MANOMETER

MAX.- AND MIN.-FUNCTION / ACCURACY 0,5 %FS

ECO 2 is a compact and economical digital pressure measuring instrument providing medium accuracy at high resolution and repeatability. The piezoresistive pressure transducer as the heart of the instrument has gone through extensive pressure- and temperature tests.

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.

ECO 2 has two operating keys. The left key turns on the instrument and is used 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 pressure value as a zero reference. Barometric pressure variations can thus be compensated.  
The factory setting of the Zero for the range -1...30 bar is at vacuum (0 bar absolute). For relative pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with the range 0...300 bar are calibrated with the zero at atmospheric 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>.

ECO 2 has 7/16" UNF male thread and is delivered complete with an O-ring seal swivel fitting which allows ECO 2 to be rotated 360°. Only minimal torque 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                | -1...30 bar  | 0...300 bar |
| Resolution                     | 10 mbar  | 100 mbar    |
| Overpressure                   | 60 bar   | 400 bar     |
| Accuracy @ Room Temperature *  | < 0,5 %FS  |             |
| Total Error Band (0...50 °C)   | < 1 %FS (accuracy incl. temperature error)   |             |
| Storage-/Operating Temperature | -20...70 °C / 0...50 °C  |             |
| Supply                         | 3 V battery, type CR 24300   |             |
| Battery Life                   | 1'000 hours continuous operation   |             |
| Pressure Connection            | 7/16"-20 UNF (adapter G 1/4" included)   |             |
| Materials in Media Contact     | ECO 2: AISI 316L (DIN 1.4404/1.4435)<br>Swivel: Brass nickel-plated, Nitril O-Rings<br>Adapter: Galvanised steel (9 SMnPb 28K), NBR profile seal |             |
| Protection                     | IP 65  |             |
| Diameter x Height x Depth      | 59 x 95 x 32 mm  |             |
| Weight Instrument / Adapter    | ≈ 100 g / 40 g   |             |

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



EEx-Certification in Process



Subject to alterations

04/2015

KELLER AG für Druckmesstechnik  
KELLER Ges. für Druckmesstechnik mbH

St. Gallerstrasse 119  
Schwarzwaldstrasse 17

CH-8404 Winterthur  
D-79798 Jestetten

Tel. +41 (0)52 - 235 25 25  
Tel. +49 (0)7745 - 9214 - 0

Fax +41 (0)52 - 235 25 00  
Fax +49 (0)7745 - 9214 - 60