



## DIGITAL MANOMETER

## ECO 2 / ECO 2 Ei

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) Swivel: Brass nickel-plated, Nitril O-Rings 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.



### ECO 2 Ei

#### Intrinsically safe version, 2014/34/EU

Classification: II 1 G Ex ia IIC T5 Ga  
Certification File: LCIE 01 ATEX 6001 X  
IECEx LCIE 18.0035 X

The Ex-protected ECO 2 can only be operated with the RENATA CR2430 battery.

Functions, ranges and accuracy are identical to the standard version.

