

ECO 1 is a compact and economic digital pressure measuring instrument. It is of medium accuracy, but of high resolution and repeatability.

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 1 has two operating keys. The left key is to turn the instrument on and to execute its functions (the functions appear successively on the display as long as the key is pressed and are executed when releasing the key). 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.

OFF: Turns off the instrument.

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 range -1...30 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with the range 0...300 bar are calibrated in a sealed gauge mode with 1 bar absolute pressure as a Zero reference.

CONT: The instrument turns off 15 Min. after the last key function. Activating CONT (Continuous) deactivates this automatic turn-off.

ECO 1 has 7/16" UNF male thread and is delivered complete with an O-ring seal swivel fitting which allows ECO 1 to be rotated through 360°. Only minimal tightness is needed to seal up to 300 bar.

Process pressure connection is G 1/4" male.



"Swivel"



Adapter G 1/4"

SPECIFICATIONS

Ranges rel.	-1...30 bar	0...300 bar
Resolution	10 mbar	100 mbar
Overpressure	60 bar	400 bar
Accuracy	0,5% FS typ.	1% FS max
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	≈ 125 g	

ACCESSORIES (OPTIONAL):

Protective rubber covering and carrying bag.
The protective rubber covering is suitable for toughest applications.

ECO 1 Ei

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

Classification: II 1 G EEx ia IIC T6 or T5
Certification File: LCIE 01 ATEX 6001 X

The EEx ia version of ECO 1 incorporates an additional protection switch. Functions, ranges and accuracy are identical to the standard version.

