

Family Datasheet

ECO 240

Baro-/Vacuum-Meter

- Modern and functional housing
- Waterproof (IP67)
- Simple universal pressure connection with interchangeable connections
- High resolution and accuracy
- Very fast!
- 3-line display / overhead display at the push of a button
- Backlight
- Robust, long battery life
- Hold-function to freeze measured values
- Min/Max-function for minimum and maximum recorded measured values
- Made in Germany



Description

When developing the ECO240 series, the focus was deliberately on the essential functions of measurement technology - a high-quality sensor is at the heart of this - the heart of the measuring device - on which no savings were made despite the low overall price!

Precision, speed and reliability, packaged in a compact and waterproof housing, make the device a reliable partner for the trade.

For fast measurement in a vacuum at ECO240-1 (VAC)

Fast and precise, for example for testing vacuum packaging machines:

Pack and evacuate the device, read the display, done. The minimum vacuum reached can also be read off after unpacking via the minimum value display. Also for monitoring vacuum moulding processes.

Barometer / pressure gauge with high resolution for ECO240-2

Covers pneumatic range with 1 mbar resolution up to 14 bar! Can be used as a relative pressure measuring device (run "tare" without pressure to set device to 0) or as an absolute pressure measuring device (starts at ambient pressure e.g. 1013 mbar = 1013 hPa)

Thanks to the optional calibration certificates, the baro-/vacuum-meter can serve as a perfect reference device for checking the actual accuracy of corresponding devices.



ECO 240-2 front

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Connection options

- ① UT connection for tubes 6 x 1 mm
(4 mm inner) and 8 x 1 mm (6 mm inner)
Universal port for the connection of different pressure connections. The pressure connection is exchangeable due to 1/8 inch port!
- ② QC6 Quick-Connect connection
for 6 x 1 mm (Ø 4 mm inner) tubes
- ③ ST6 screw connection for 6 x 1 mm
(Ø 4 mm inner) tubes
- ④ MCM mini male quick coupling nominal diameter 2.7
(Mini quick connect coupling socket optionally available)

Please select variant when ordering. Can be changed later.



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Display

Thanks to the backlight, the three-line LCD display offers ergonomic wide-angle visibility - by day and night. The HOLD function enables the display values to be frozen.

Power supply

2 powerful AA batteries, the energy-saving design and the configurable automatic switch-off function ensure long operation.

Configurable LCD backlight for further energy saving options.

TECHNICAL DATA

Measurement specifications

	ECO240-1	ECO240-2
Measuring range	0.0 to 1700.0 hPa (mbar)	0 to 14000 hPa (mbar)
Pressure connection	one tube connection, interchangeable with G1/8 universal port	
Measuring	Absolute pressure	
Precision typically	± 2 hPa (@ 5 to 30 °C) Only at option -VAC @ 0 to 20 hPa: ± 1 hPa (@ 10 to 30 °C)	± 0.02 % FSS +/-0.1 % of value (@ 25 °C)
Measuring frequency	FAST: 25 measurements per seconds SLO: 2.5 measurements per seconds	
Error max. (-20 to 50 °C)	± 1.25 % FSS	± 0.1 % FSS ± 0.5 % of value
Overload	3000 hPa abs.	20000 hPa abs.
Optional special functions	<i>n_{uLL}</i> : Tare function or convenient sea level setting <i>R_{ur}</i> : Averaging over 2 s / 5 s / 10 s	

General specifications

Display	3-line with battery status indicator, Backlight, protected by shatterproof screen, overhead display at the push of a button
Power supply	2 x AA-Alkaline batteries (scope of delivery)
Power consumption	< 1 mA (without backlight, SLO), with backlight: ca 3 mA
Battery life	> 3000 h typ. continuous operation (without backlight, SLO)
Automatic Power-Off	Yes, configurable by the user
Operating conditions	-20 to +50 °C (recommended 5 to 30 °C); 0 ... 95 % r.h. (short-term condensation possible)
Storage temperature	-20 to 50 °C (without batteries)
Protection class	IP67
Dimensions	108 x 54 x 28 mm, incl connectors: ca 122 x 54 x 28 mm
Weight	Approx. 140 g incl. batteries
Housing	break-proof ABS, polyester (front panel)

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ORDERING CODE

1. 2. 3. 4.

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1.	Measuring range	
	1	0.0 to 1700.0 hPa abs.
	2	0 to 14000 hPa abs.
2.	Connection option	
	UT	G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner)
	QC6	G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm
	ST6	G1/8 inch port incl. screw connector for tube with outer-Ø 6 mm
	MCM	G1/8 inch port incl. mini quick coupling plug, nominal width 2.7
3.	Option (only ECO240-1)	
	VAC	add. housing vent for fast complete evacuation
4.	Set option	
		Device in carton box, test-protocol, batteries, manual
	SET	Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries, manual
	SET	For -MCM: Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries, manual, quick connect socket GDZ-MCF
	WPD	Device in case GKK 1002, 1 m tube 6x1 PVC, factory calibration WPD5, not DAkkS accredited, batteries, manual

Option -VAC (only ECO240-1):
Pressure compensation



Pressure connection

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STANDARD ARTICLES

ECO240-1-UT	Vacuum / Barometer with pressure port Pressure connection: G1/8 inch port incl. connection for tube 6x1 mm or 8x1 mm Set-Option: Device in carton box, test-protocol, batteries, manual Measuring range: 0.0 ... 1700.0 hPa abs	Art no. 486733
ECO240-1-UT-VAC	Vacuum / Barometer with pressure port Pressure connection: G1/8 inch port incl. connection for tube 6x1 mm or 8x1 mm Option: add. vent for fast complete evacuation + extra adjustment < 1 mbar Set-Option: Device in carton box, test-protocol, batteries, manual Measuring range: 0.0 ... 1700.0 hPa abs	Art no. 486891
ECO240-2-UT	Vacuum / Barometer with pressure port Pressure connection: G1/8 inch port incl. connection for tube 6x1 mm or 8x1 mm Set-Option: Device in carton box, test-protocol, batteries, manual Measuring range: 0 ... 14000 hPa abs	Art no. 486734

ACCESSORIES

ST-G1000	Protection bag with belt clip	Art no. 611373
G1000-Cover	Rubber protection cover for ECO-Line/G 1000 series, black, incl. 2 neodymium magnets	Art no. 483958
GCLIP1000	Metal belt clip self-adhesive	Art no. 475820
G1000-BASE	ECO-Line table base and wall suspension	Art no. 481885
GKK1002	Case for ECO-Line / G1000 series, dimensions: 235 x 185 x 48 mm	Art no. 411907

For further articles, please visit the Senseca website.

OPTIONAL: CALIBRATION

ISO-WPD5	ISO calibration certificate: 5 points rising, 5 points falling	Art no. 602514
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Many other calibration options are available at Senseca, for more information please visit the Senseca-Website