

ECO 230

Precision Barometer/Altimeter

- Modern and functional housing
- Waterproof (IP65 / IP67)
- High resolution and accuracy for ambient pressure and altitude
- Adjustable sea level correction
- Altimeter function with convenient height adjustment
- Long-life and maintenance-free sensor 3-line display / overhead display at the push of a button
- Trend display, can be used as a variometer
- 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 ECO230 series, the focus was deliberately on the essential functions of the measurement technology - a high-quality sensor is at the center of attention - the heart of the measuring device - in which no savings were made despite the low overall price!

Fast, precise, and high-resolution:

Resolution: 0.1 hPa (mbar) and resolution of the height display derived from the pressure 0.1 m!

Barometer sensors are used in countless applications: examples include vehicles with combustion engines (air pressure as an important parameter for engine control), altimeters (calculation of altitude using barometric altitude formula), navigation systems, smartphones and, of course, in weather stations. But is the absolute pressure displayed, correct?

Thanks to the optional calibration certificates, the barometer can serve as a perfect reference device for checking the actual accuracy of corresponding devices.



ECO 230 front

Family Datasheet

ECO 230

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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

	Barometer	Altimeter	Temperature
Measuring range	300.0 to 1100.0 hPa (mbar) abs. 4.350 to 15.950 PSI abs. 225.0 to 825.0 mmHg (Torr) abs.	-500,0 to 9000,0 m -1640 to 19999 ft	-20.0 to 50.0 °C / -4.0 to 122.0 °F
Accuracy	Typ.: ± 1 hPa (at T: 0 to 30 °C) max.: ± 0.25 % FSS equals ± 2 hPa	Typ. ± 1 m rel. (over a short time with const. ambient pressure @ 25°C)	typ. ± 0.5 °C @ 25°C
Measuring frequency	FAST: 2.5 measurements per second SLO: 1 measurement per 4 seconds		
Overload	4000 hPa abs.		
Additional functions	<i>h_{rel}</i> : Tare-function, respectively comfortable altitude setting <i>A_{avr}</i> : Averaging over 2 s / 5 s / 10 s Only as Altimeter: Variometer display can be shown with ft/h, m/s, m/h.		

General specifications

Display	3-line with battery status indicator, Backlight, protected by shatterproof screen,
Power Supply	2 x AA-Alkaline batteries (scope of delivery)
Power consumption (SLO)	ca. 0.4 mA, 2.4 mA with backlight
Battery life	ca. 6000 h typ. continuous operation (without backlight, SLO)
Automatic Power-Off	Yes, configurable by the user
Operating conditions	-20 to +50 °C (recommended 5...30 °C); 0 ... 95 % r.h. (short-term condensation possible)
Storage temperature	-20 to 70 °C (without batteries)
Protection class	IP67 (pressure inlet has to be kept dry for precise measuring)
Dimensions	108 x 54 x 28 mm
Weight	ca. 140 g incl. battery
Housing	break-proof ABS, polyester (front panel), Metal clip and carrying strap

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ORDERING CODE

1.

ECO 230

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1.	Set-Option
	Device in carton box, test-protocol, batteries, manual
-SET	Device in case GKK 1002, test-protocol, batteries, manual
-WPD	Device in case GKK 1002, factory calibration WPD5, not DAkkS accredited, batteries, manual

STANDARD ARTICLES

ECO230	Precision barometer / Altimeter Set-Option: Device in carton box, test-protocol, batteries, manual	Art no. 486736
ECO230-SET	Precision barometer / Altimeter Set-Option: Device in case GKK 1002, test-protocol, batteries, manual	Art no. 487012
ECO230-WPD	Precision barometer / Altimeter Pressure connection: without Set-Option: Device, batteries, manual, test report, transport case GKK 1002, WPD5 factory calibration	Art no. 487015

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 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