

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 by 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: 10 measurements per second SLO: Ca. 1 measurement per second		
Overload	4000 hPa abs.		
Additional functions	NVLL: Tare-function, respectively comfortable altitude setting AVR: 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, overhead display at the push of a button
Power Supply	2 x AA-Alkaline batteries (scope of delivery)
Power consumption	<1 mA
Battery life	> 3000 h typ. continuous operation (without backlight)
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
Dimensions	108 x 54 x 28 mm
Weight	approx 140g
Housing	break-proof ABS, polyester (front panel), Metal clip and carrying strap

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Scope of delivery

- Hand-held measuring device with permanently connected sensor
- 2xAA batteries
- Manual
- Test report

ORDERING CODES

ECO230	
Precision Barometer/Altimeter (earlier G 1110)	
1	Set-Option
	- Device, batteries, manual, test report
	-SET Device, batteries, manual, test report, transport case GKK 1002
	-WPD5 Device, batteries, manual, test report, transport case GKK 1002, WPD5 factory calibration

Standard Articles

ECO230	Precision barometer / Altimeter Pressure connection: without Set-Option: Device only	Art.Nr. 486736
ECO230-SET	Precision barometer / Altimeter Pressure connection: without Set-Option: Measuring device, suitcase GKK 1002	Art.Nr. 487012
ECO230-WPD	Precision barometer / Altimeter Pressure connection: without Set-Option: Measuring device, suitcase GKK 1002, WPD5 calibration certificate, not DAkkS accredited	Art.Nr. 487015

Accessories

Replacement parts:

GB-AA-2	Replacement batteries 2x AA	Art.-Nr. 600704
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Further accessories:

G1000-Cover	Rubber protection cover, incl. 2 magnets	Art.-Nr. 483958
ST-G1000	Protection bag, leather	Art.-Nr. 611373
GCLIP1000	Metal belt clip	Art.-Nr. 475820
G1000-BASE	ECO-Line table base and wall suspension	Art.-Nr. 481885
GKK1000	Case	Art.-Nr. 611603

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