

Air Pressure Sensor AB 60

Piezoelectric barometric pressure sensor



Description

- Piezoelectric barometric pressure sensor
- Low power consumption
- Operating pressure:
 - 800 ... 1100 hPa (mbar)

Measurement principle

The piezoelectric pressure sensor's signal is electronically amplified to provide an output signal of 0...5 VDC.

Mounting

The sensor is mounted in a stainless steel housing, protection class IP64 when the connector is plugged in. When mounted outside the central steel cabinet we recommend protective housing with pressure compensation.

In measurement operation the sensor needs an external supply of at least 9 VDC.

Specifications

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Characteristics		AB 60
Order-No.		S31105
Operating pressure		800 ... 1100 hPa (mbar) (Altitude: ≤ 1400 m)
Slope		60 hPa/V
Offset		800 hPa
Temperature operation range		-40 ... 85 °C
Humidity range		0 ... 98 %RH
Accuracy		
Total accuracy (-10 ... 60 °C)	±1 % FSO*	(±3 hPa; FSO is 300 hPa)
Repeatability		±0.1 % FSO*
Long term stability		±0.1 % FSO*
Electrical data		
Output voltage		0 ... 5 VDC
Supply voltage		9 ... 32 V
Current consumption		5 mA
General		
Dimensions		Length 72 mm, diameter 22 mm
Weight		80 g
Housing		Stainless steel
Connection		4-pole plug (M12)
Protection class		IP 64 - when connector is plugged in
Vibration (5 ... 500 Hz)		2 gRMS
Mechanical shock		50 g
Atmosphere		non-ionic, non-corrosive

* FSO (Full Scale Output) describes the difference of the upper and the lower limit of the pressure range.

Sensor connection diagram

Sensor connection to Ammonit Meteo-40 data logger

Sensor	Plug Pin No.	Ammonit Cable Wire Colour	Meteo-40 Analog Voltage	Supply Sensor
Air Pressure Output Voltage	2	white	Ax A	
Ground	4	blue	Ax B	
Supply	1	red		9 ... 32 VDC
Ground	4	black		Main Ground

Cable type: LiYCY 4 x 0.25 mm²

Connect the shield logger-sided to Ground (GND)

Sensor connection diagram to Ammonit Meteo-40 data logger

