

# Air Pressure Sensor Ammonit 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

Characteristic	AB 60
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)	±3 hPa
Repeatability	±0,6 hPa
Long term stability	±0,3 hPa/year

Characteristic	AB 60
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 mm<sup>2</sup>

Connect the shield logger-sided to Ground (GND)

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