Ammonit

Barometric Pressure Sensor AB 60 / AB 100

Specifications

- Piezoelectric barometric pressure sensor
- Low power consumption
- Operating pressure: AB 60 (S31100) 800 ... 1100 hPa (mbar) AB 100 (S31200) 600 ... 1100 hPa (mbar)

Measurement principle and Mounting

The piecoelectric pressure sensor's signal is electronically amplified to provide an output signal of 0...5 VDC. The sensor ist mounted in a stainless steel housing, protection class IP64 when the connector is plugged in.

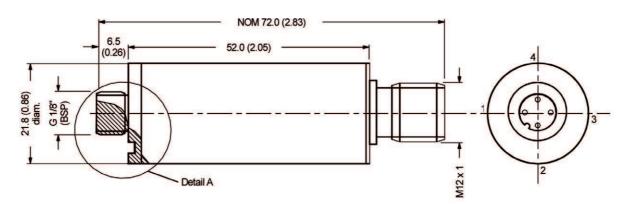
The connecting cable is included in delivery. If required it will be ready for connection in an Ammonit steel cabinet.

When mounted outside the central steel cabinet we recommend protective housing with pressure compensation.

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



Dimensional Drawing



mass: appr. 80g

dimensions in mm

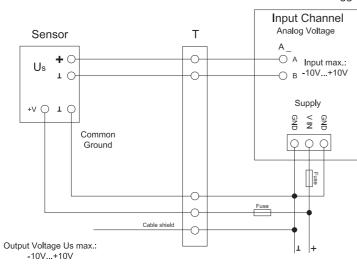
Characteristics		AB 60		AB 100	
Operating pressure	800 1100 hPa (mbar)		6001100 hPa (mbar)		
	(Altitude: ≤ 1400 m)		(Altitude: 1400 3700 m)		
Slope	60 hPa/V		100 hPa/V		
Offset	800 hPa		600 hPa		
Temperature operation range	-40 85 °C				
Humidity range	0 98 %RH				
Accuracy					
Total accuracy (-10 60 °C)	±1 % FS0*	(±3 hPa; FS0 is 300 hPa)	±1 % FS0*	(±5 hPa; FS0 is 500 hPa)	
Repeatability	±0.1 % FSO*		±0.2 % FSO*		
Long term stability	±0.1 % FSO*		±0.1 % FS0		
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	Plug Pin No.	Ammonit Cable Wire Colour	Meteo-40 Analog Voltage	Supply Sensor
Air Pressure Output Voltage	2	white	А	
Ground	4	blue	В	
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)



Meteo-40 Data Logger

T: Teminal Connection or

Lightning and Surge Protection Device

Sensor Connection Diagram

