




Mod. **BAR-AV-S**

High precision digital barometer
with 3 sensors

Highlighted specs

- Very High accuracy measurement – temperature compensation on full range
- Reliable and long-term stability
- Fast dynamic response
- Wide range of temperature
- Data available in numerical and graphical format
- Accredia calibration certificate on request
- 3 capacitive transducer
- According to  norms

The digital Barometer **BAR-AV**, is a **high precision instrument** for **absolute pressure, QNH, QFE, QFF**. Long-term stability and a web interface make it the perfect instrument for **professional acquisition systems** in **meteorology, aviation** and **industrial** applications. Heavy duty enclosure **IP67**, allows an **easy installation** also in harsh environmental conditions. This sensor is built **according WMO** and **ICAO** standards.

The 3 capacitive transducers permit to increase the average accuracy on wide temperature range and for long time.

Different digital out protocols, adjustable offset and installation altitude set

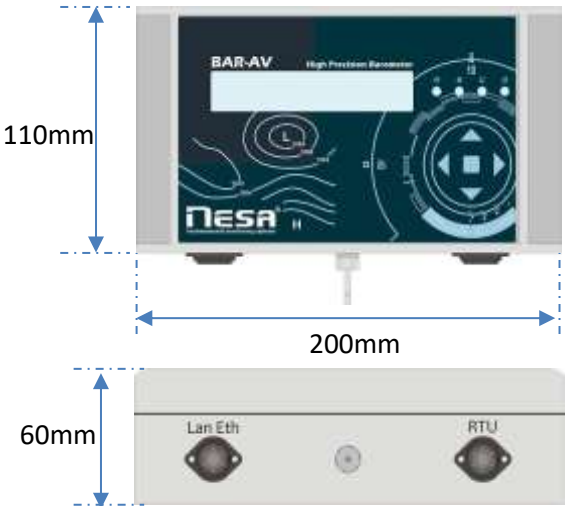
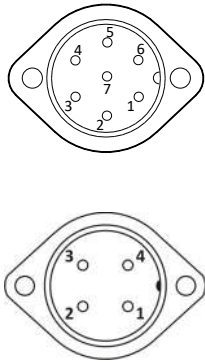
Typical range	500÷1.200 hPa
Values	Average Pressure, pressure for each transducer, temperature of transducers, QFE, QNH, QFF, Altitude, in numerical and graphical mode
Linearity / Hysteresis	< ±0.1hPa
Resolution	0.01 hPa
Accuracy at +20°C	< ±0.15 hPa
Total extended accuracy	±0.15 hPa (-20...+60 °C)
Time constant	~ 2 s
Long term stability	<±0.1hPa/year
Working conditions	-40 ÷ +80°C [0÷100 RH]; (-20 ÷ +60°C display)
Over pressure limit	3000 hPa per transducer
Housing	Enclosure in heavy duty metal painted, IP67
Data transfer	Modbus on RS485; Modbus on TCP-IP, autosensing on RS232, socket, FTP (SDI optional)
Power Supply and consumption	10.8÷15Vdc, <0.9W (~ 45mA @ 12Vdc)
Protections	Polarity reverse and transient
Weight	~ 720g

According to: CIMO/ET-Stand-1/Doc.10 (20.XI.2012) WMO-2012

Size and connections

4 Poles connector			Pin	7 Poles connector
1	TD+	White/Green	1	SDI12 (Opt)*
2	TD-	Green	2	Rs485 (A)
3	RD+	White/Orange	3	Rs485 (B)
4	RD-	Orange	4	GND
			5	+12Vdc
			6	RS232 Tx
			7	RS232 Rx

*only master for input T (°C)



Order Code

Sensor	High precision atmospheric pressure sensor (3 transducers)	BAR-AV-S	
Accessories	CB05 – 2 cables set, 5m lenght for data and power supply		CB05
	CB10 – 2 cables set, 10m lenght for data and power supply		CB10
	DRK – Din Rail kit		DRK
	PSK – Pole mounting kit ø max 80mm		PSK
	RS485-I – RS485 insulation module		RS485-I
	BAR-AV-SIT – Accredia certificate (5 points cycle)		BAR-AV-S-SIT

*specify the length for no standard measures

example of order code

BAR-AV-S

CB10