




Mod. **BAR-AV**

High precision digital barometer

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
- 1 to 3 transducer available
- 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.

Different digital out protocols, adjustable offset and installation altitude set

Typical range	500÷1.200 hPa
Linearity / Hysteresis	< ±0.1hPa
Resolution	0.01 hPa
Accuracy at +20°C	±0.15 hPa
Total extended accuracy	±0.20 hPa (-40...+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
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	~ 700g

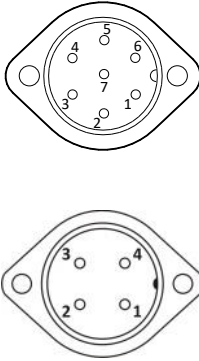
According to: CIMO/ET-Stand-1/Doc.10 (20.XI.2012) WMO-2012

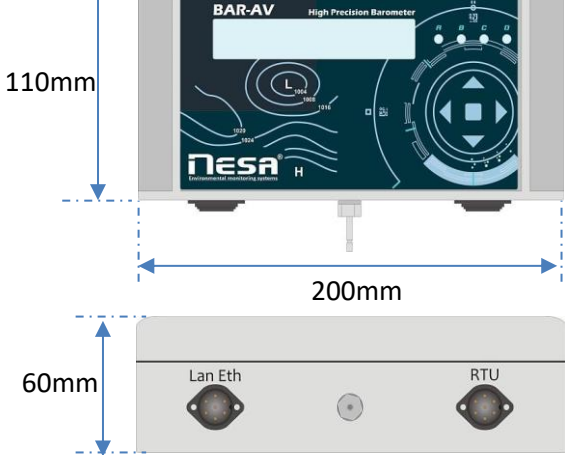
Size and connections

Pin	4 Poles connector
1	TD+ White/Green
2	TD- Green
3	RD+ White/Orange
4	RD- Orange

*only master for input T (°C)

Pin	7 Poles connector
1	SDI12 (Opt)*
2	Rs485 (A)
3	Rs485 (B)
4	GND
5	+12Vdc
6	RS232 Tx
7	RS232 Rx





Order Code

Sensor	High precision atmospheric pressure sensor (one transducer)	BAR-AV	
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-SIT

*specify the length for no standard measures

example of order code

BAR-AV

CB10