

HR8003BARO High Precision Atmosphere Gauge

General

HR8003BARO is high precision digital atmosphere gauge, with build-in digital pressure sensor, with the features of high integration, low power dissipation and long term stability. It is widely used in atmosphere measurement of industry process, weather, hydrology and water conservancy, geological prospecting and etc.

Features

- High quality and stability digital sensing elements;
- Integral measurement of pressure and temperature;
- FS digital calibration and temperature compensation ;
- RS485 interface and MODBUS-RTU standard protocol;
- Reverse power protection, over voltage protection
- Anti-surge, electromagnetic interference
- Full stainless steel sealed construction, IP68 protection

Specification

Main Specification	
Range	30KPa ~ 110KPa
Accuracy	<±0.05% F·S
Long-term stability	<0.05%F·S/year
Temp. Sensor (Integrated build-in pressure sensor)	Range: -40~85°C
	Accuracy: ±0.8°C
Temperature characteristics	

Compensation temp.	-40~85℃
Operating temp.	-40~85℃
Storage temp.	-40~125℃
Electrical characteristics	
Power Supply	DC5 ~ 30V (typ.24V)
Power Protection	Anti-reverse connection, over voltage protection
Output method	RS485/MODBUS-RTU protocol Load capacity: 128 ↑ nodes
Structural characteristics	
Measuring medium	Air
Housing material	SS 316L
Cable material	Polyurethane or PVC optional
Cable	Φ6.3mm, 1m default length or customize
Environmental characteristics	
Protection level	IP68

Electrical connections

NO.	Color	Definition
1	Red	24V+
2	Blue	RS485+
3	Green	RS485-
4	Yellow	GND

Outline construction (mm)

