

Barometer

FD-BR100

Compact, high-precision barometric pressure sensor for professional use. Features temperature compensation, ultra-low power consumption, and reliable performance in harsh environments. Ideal for weather forecasting, altitude calculation, and telemetry integration.

Features

- › Absolute atmospheric pressure sensor
- › High measurement accuracy
- › Resistant to extreme weather conditions, UV radiation, and corrosion
- › Low power consumption
- › Compact and lightweight design for easy field installation
- › Build-in temperature compensation and signal linearization
- › Calibration available through accredited laboratories

Applications

- › Wind speed measurements on masts
- › Meteorology and climatology
- › Sports applications
- › Road weather protection systems
- › Agriculture
- › Airports



Performance Specifications

Range	300...1250 hPa
Resolution	0.01 hPa
Absolute accuracy	300...1100 hPa (15...65°C) ±30 Pa
Relative accuracy	700...1100 hPa (15...55°C) ±6 Pa
Long-term drift (12 months)	±0.1 hPa
Response	nd

Output Signal

Signal Type	RS485 MODBUS protocol
Connector (socket)	M12 male connector, 4-pin configuration
Connector (plug)	M12 female plug, straight, 4-pin configuration



Power Supply

Supply voltage	6...30 VDC
Current consumption	16 mA @ 12 VDC
Surge protection	Transient Voltage Suppressor (TVS)
Short-circuit and overload protection	Polymeric Positive Temperature Coefficient fuses (PPTC)

Physical

Housing material	nd
Ingress protection (IP)	IP65
Dimensions	nd
Weight	nd
Shipping weight	nd
Shipping dimensions	nd

