



METEOROLOGICAL EQUIPMENT

ED-270 Barometric Pressure Sensor

FEATURES

- 800...1100 hPa measurement
- Output 0...5VDC
- Temperature compensated and calibrated
- Fast response time
- Long term stability
- LED-indication for Supply Voltage
- 12...24VDC Supply Voltage
- 11-Pole PLUG-IN Module

APPLICATIONS

- Research and Scientific measurements
- Wind Farms
- Environmental monitoring
- Agriculture - Industry - Avionic
- Meteorological Stations



TECHNICAL CHARACTERISTICS

ED-270 Barometric Sensor is designed for use at meteorological and industrial equipment. The Pressure Sensor is internal temperature compensated and calibrated for high precision.

At the front of the module is mounted a 6 mm Tube inlet to the Pressure Sensor. This has to be connected through an air tube and to the surroundings outside, if ventilation is installed with the effect of change in air pressure around the sensor.

The Pressure sensor is mounted into a 11-Pole PLUG-IN Module for easy installation in customer applications.

TECHNICAL SPECIFICATIONS FOR ED-270 Barometric Pressure Sensor

Measuring Range
800 - 1100 hPa

Non-linearity
0.005 %FSO (typ.)
0.1 %FSO (max.)

Temperature stability
+/- 0.5 hPa (-10°C...+60°C)

Long term stability
0.1 %FSO/year

Response time
1 mS for 10% to 90%

Output Signal
0...5VDC for 800...1100 hPa

Output load maximum
Source 20mA
Sink 10mA

Power Indication
3mm LED Red

Supply Voltage
12...24 VDC +/- 15%

Power Consumption
Max. 11mA (no load)

Electrical Connections	11-Pole Plug
Terminal 1:	Output GND
Terminal 2:	Output V+
Terminal 3:	NC
Terminal 4:	NC
Terminal 5:	NC
Terminal 6:	NC
Terminal 7:	NC
Terminal 8:	NC
Terminal 9:	+ 24 VDC
Terminal 10:	NC
Terminal 11:	Supply GND

Serial no.: _____

Date: _____

Operating Temperature
-40 to +60°C

Humidity Limits
Pressure inlets only 0...100%

Mechanical Specifications

Height	75mm
Width	37mm
Depth	73mm
Weight	97g

Accessories included
11-Pole Socket for DIN-rail mounting

EU Declaration of Conformity
EN61000-6-3 Emission
EN61000-6-2 Immunity

Warranty
One Year against faulty materials
or workmanship.

Maintenance
None

Calibration Report

(To follow)

Sign: _____