

# BP-600

## MODBUS/SDI-12

### Barometric Pressure Sensor

The Elemetron Barometric Pressure sensor is designed for accurate and stable measurements in meteorology systems.

The sensor is based on a factory-calibrated MEMS sensor element.



### FEATURES

- Suitable for outdoor use.
- Very good long-term stability.
- Digital MODBUS RTU, SDI-12 and Analog voltage pressure output.
  - Provides instantaneous values.
  - Provides the average values for the interval between readings.
- Digital output is user selectable.

### SPECIFICATIONS

#### DIGITAL PRESSURE SENSOR

- Measurement range: 500 ~ 1100 mbar
- Absolute Accuracy:  $< \pm 1$  mbar @ +25 °C
- Resolution: 0.1 mbar
- Long term stability:  $\pm 1$  mbar/year

#### MODBUS OUTPUT

- MODBUS RTU RS-485 slave.
- Node Address: 1 ~ 230
- 9600 baud, 8 data bits, 1 stop bit, no parity.

#### SDI-12 OUTPUT

- SDI-12, v1.4 compatible.
- Responds to a subset of SDI-12 commands.

#### ANALOG PRESSURE OUTPUT

- Output Range: 0 ~ 1V, 0 ~ 2.5V, 0 ~ 5V (user selectable).
- Measurement range: 500 ~ 1100 mbar
- Absolute Accuracy:  $\pm 1.5$  mbar @ +25 °C
- Resolution: 0.1 mbar

#### GENERAL

- Response time:  $< 10$  ms
- Long term stability:  $\pm 1$  mbar/year
- Internal sampling rate: 2 seconds.
- Operating temperature: -40 °C ~ +80 °C
- Operation voltage: 8...30 Volts DC
- Current consumption:  $< 5$  mA
- Cable length: 1 meters
- Enclosure material: Cast Aluminum
- Dimensions: Length=90 mm, Width=36 mm, Height=30 mm
- Protection: IP65
- Certification: CE
- Made in E.U. under ISO9001
- Warranty: 2 years

### ORDERING

Model: BP-600  
Part Number: PR.001.0022

**ELEMETRON**

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<http://www.elemetron.gr>