

## **230-WE100 Barometric Pressure Sensor**

The **230-WE100 Barometric Pressure Sensor** covers a pressure range from 800 to 1100 mb. The barometric pressure transmitter is fully temperature compensated within an operating range of  $-40^{\circ}$  to  $65^{\circ}$  Celsius. The output is 4-20 mA with a two-wire current-loop configuration. The sensor is supplied with 25' of marine grade cable, with lengths up to 500' available.

The 230-WE100 produces a 4-20 mA output signal which is an industrial standard signal for process control monitoring. Most PLCs (Programmable Logic Controller), RTUs (Remote Telemetry Unit), and data acquisition systems accept this signal directly. If a voltage signal is required, the sensor output may be converted by reading the voltage across a precision resistor in series with the signal wire. When the 4-20 mA signal is dropped across a 250 ohm resistor, the output will be 1 to 5 Vdc. If the 4-20 mA signal is dropped across a 125 ohm resistor, the output will be halved to 0.5 to 2.5 Vdc.

### **Specifications**

Output: 4-20 mA, two-wire current loop configuration  
Range: 800-1100 mb (for use at sea level to 5,000 feet)  
Accuracy:  $< \pm 3$  mb  
Linearity/Hysteresis:  $\pm 0.1\%$   
Operating voltage: 10-36 Vdc  
Current draw: Same as sensor output  
Warm-up time: 3 seconds minimum  
Operating temperature:  $-40^{\circ}$  to  $+55^{\circ}\text{C}$   
Sensor size: 3" x 2" x 1"  
Weight/Shipping: 1 lb/2 lbs (with 25' cable)

### **Ordering Information**

230-WE100 Barometric Pressure Sensor, includes 25' cable  
230-WE100C Additional Cable, per foot (500' max)



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