



Microcom Design, Inc.

Barometer Model 278

P/N: BP-278



The **278** atmospheric pressure transducer is designed for use in environmental applications that require excellent accuracy, fast dynamic response, and long-term stability and reliability. To withstand the environmental extremes typically found in Automated Weather Systems (AWS) applications, the Model 278 housing is constructed of stainless steel and polyester. A terminal strip is provided for connection to DCP's signal/power supply connections, and a 1/8" Barbed fitting is used for pressure connection. The transducer's footprint (3.6" x 2.4" x 1.0") making it ideal for use as a new or drop-in replacement to existing configurations.

Specifications

Accuracy: ± 0.5 hPa/mb @ +20°C (+68°F)

± 1.0 hPa/mb @ 0° to +40°C (0 to +104°F)

± 1.5 hPa/mb @ -20° to +50°C (-4°F to +122°F)

± 2.0 hPa/mb @ -40° to +60°C (-40°F to +140°F)

Non-Linearity: ± 0.4 mb

Hysteresis: ± 0.05 mb

Non-Repeatability: ± 0.03 mb

Resolution: 0.01 mb

Long Term Stability: 0.1 mb/Yr

Warm-up: <1 sec. from Shutdown Mode (Warm-up shift <0.1 mb maximum)

Response Time: <100mSec

Electrical Data

Electrical Circuit: 3 or 4 Wire

Excitation: 9.5 to 28 VDC

Output: 0 to 2.5VDC; 0 to 5 VDC

Output Impedance: <10 Ohms

Output Noise: <50 Microvolts

Current Consumption: 3 mA Nominal (Operating Mode) 1 μ A (Sleep Mode)

Pressure Media: Non-condensing air or gas.

Environmental Data

Operating Temperature: -40° to +60°C (-40°F to +140°F)

Storage Temperature: °F (°C) -60° to +120°C (-76°F to +248°F)

Physical Description

Case: Stainless Steel and Polyester

Pressure Fitting: 1/8" (ID dia.) Barbed Fitting

Electrical Connection: 5-Pin Terminal Block

Dimensions: 3.6" x 2.4" x 1.0"

Weight: (approx.) 4.8 oz (135g)

Pressure Fitting: 1/8" Tube Fitting

Pressure Media: Non-condensing air or gas compatible with stainless steel, alumina ceramics, gold and elastomer.

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