



Barometer 215-A

S1082W / S1082Z

- **Ultra-high accuracy**
- **Long-term stability**
- **0.1 mBar precision**

The Digi quartz[®] pressure transducer is a significant advance in the pressure instrumentation field. In spite of its high cost, it is used worldwide in exacting scientific and engineering studies because its accuracy, resolution, and stability are unequivocally the best. The model 215-A barometer can be counted on in the field to maintain an accuracy better than 0.05 and long-term stability better than 0.1 year⁻¹.

The sensor is mounted in a shock mount and is capable of withstanding extreme shock and vibration loads.





Technical Specifications

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Measurement

Range: 800 - 1100 mBar
Resolution: 0.01 (internal) mBar
Accuracy: 0.1 mBar

Electrical

Input Voltage: 6 - 35 VDC
Input Current: 1 mA
Output Frequency: 40 - 36 kHz
Output Signal: 4 volt square wave capacitatively coupled,
with source impedance less than 750

Environmental

Temperature: -50°C to +65°C
Vibration: Conforms to MIL-E-5400, Curve III for operational vibration & shock.
Caution: Do not exceed 500 Hz upper frequency limit.

PHYSICAL

Size: 23 mm x 40 mm x 38 mm (0.9 in x 1.57 in x 1.5 in)
Weight: 0.17 kg (0.37 lbs)
Material: 705.1 aluminum alloy case per QQ-A-601D
Finish is clear anodize per MIL-A-8625C Type II, Class I
Pressure chamber is stainless steel, nickel, and epoxy