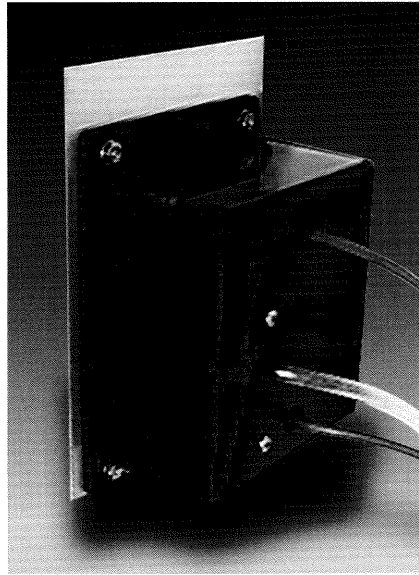




Q-Net Barometric Pressure Sensor



Product Overview

The Model 7120 is designed to mount inside the standard Q-Net enclosure on one of the slide-in accessory equipment bays.

The 7120 is packaged in a black thermoplastic enclosure. All electrical and plumbing connections exit through the cover of the enclosure without external connectors. The electrical and plumbing leads are three feet long and are of adequate length for termination with the standard Q-Net enclosure. There is one cable for the BP sensor power and signals and a separate cable for the optional heater power. When the heater option is not installed, a black plastic plug covers the unused cable hole in the enclosure cover.

Pressure Transducer

The pressure transducer uses a laser-trimmed piezoresistive sensing element to convert a change in atmospheric pressure to an analog voltage. Atmospheric pressures from 600 mb to 1100 mb (17.72-32.43 in. Hg) are detected and amplified by the sensor and its associated circuitry. The wide response of the sensor allows operation at elevations ranging from sea level to 14,000 feet without adjustments to the sensor.

The sensor operates from a DC power source of 10.5-24.0 Vdc, 15ma maximum. The output voltage range is from 2.9008 Vdc to 5.3167 Vdc, corresponding to a pressure range from 600 to 1100 mb. Input power and output signals are provided through a four conductor shielded cable.

SYSTEMS

Specifications

Q-Net Barometric Pressure Sensor

Model 7120 (non-heated version)

Sensing Range: 600 to 1100 mb
Operating Range: Sea level to 14,000 feet
Output: 2.9008 to 5.3167 Vdc
Sensitivity: 4.83 millivolts/mb
Accuracy: ± 0.88 mb (20°C to 50°C)
 ± 2.2 mb (-10°C to 20°C)
Operating Temperature: -10°C to 50°C
Storage Temperature: -50°C to 65°C
Storage Pressure: 5 to 30 psi
Sensor Power: 15 ma at 10.5-24.0 Vdc
Enclosure Size: 4.6" x 4.6"W x 2.5"H
Weight: 1.0 pound

Model 7120 (with optional heater)

Sensing Range: 600 to 1100 mb
Operating Range: Sea level to 14,000 feet
Output: 2.9008 to 5.3167 Vdc
Sensitivity: 4.83 millivolts/mb
Accuracy: ± 0.88 mb (-40°C to 50°C)
Operating Temperature: -40°C to 50°C
Storage Temperature: -50°C to 65°C
Storage Pressure: 5 to 30 psi
Sensor Power: 15 ma at 10.5-24.0 Vdc
Heater Power:
(110 to 220 volt) 7.5 watts max.
Enclosure Size: 4.6"L x 4.6"W x 2.5"H
Weight: 1.2 pounds

Ordering Information

Q-Net Barometric Pressure Sensor

7120	Q-Net barometric pressure sensor, includes 3' cable
20550	Mounting kit for 7120 into Q-Net enclosure



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