



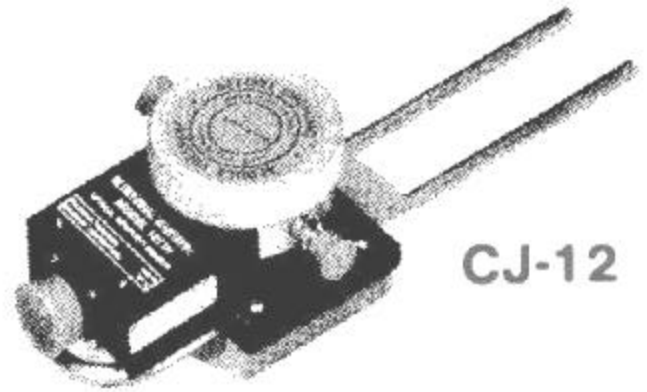
1211HS

Two Stage Chilled Mirror Sensor

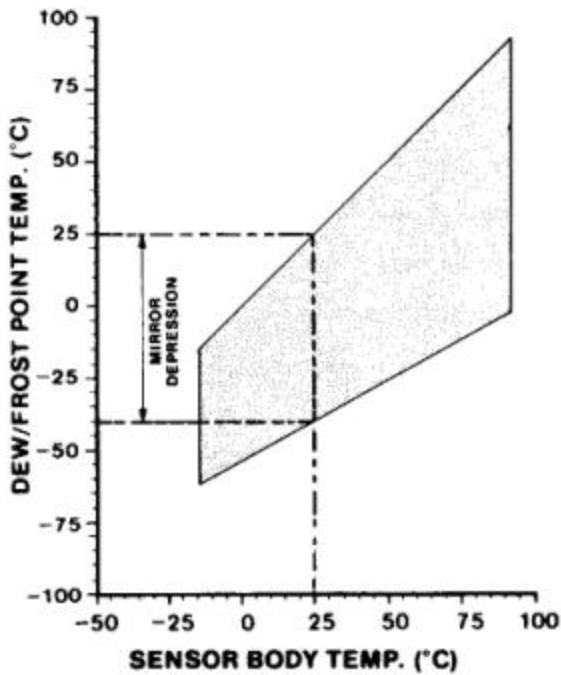
Model 1211HS is a general purpose, 2-stage chilled mirror sensor with 65°C (117°F) of depression capability. Model 1211HS can be used as in the laboratory as well as industrial applications. The sensor is available with an auxiliary liquid cooling jacket to extend the range resulting in an economical standard for the validation of compressed and process air to -60°C frost point. The 1211HS functions with any General Eastern M or E series monitors to provide a time proven hygrometer system that provides primary humidity measurement. The hygrometers system is calibrated to NIST traceable reference standards and is suitable for use as humidity transfer standard. General Eastern's manufacturing and quality system is certified to ISO-9001 standards. For more information on the theory and operation of General Eastern's Chilled Mirror Hygrometers and Humidity Calibrators, contact us to obtain a catalog and application assistance.

APPLICATIONS

- LABORATORY CALIBRATION STANDARDS
- COMPRESSED AIR DRYERS
- EMISSIONS TESTING
- INSTRUMENT AIR LINES
- HEAT EXCHANGER & COIL CALORIMETRY
- ENVIRONMENTAL CHAMBERS
- HEAT TREAT FURNACES



1211HS Mounted to CJ-12 Cooling Jacket. Chilled water or heat exchange fluid flowing through the jacket lowers the body temperature of the sensor enabling it provide dew/frost point lower dew/frost point measurements.



SPECIFICATIONS:

Sensing Element: 1/3 Class A DIN 43760 PRT, 100 ohm @ 0°C (32°F)

Dew/Frost Point Accuracy

Standard: ±0.2°C (±0.36°F)

Optional: ±0.15°C (±0.27°F)

Sensitivity: > 0.03°C (0.05°F)

Repeatability: ±0.05°C (±0.09°F)

Hysteresis: None

Cooling Stages: 2

Depression @ 25°C, 1 atm, air): 65°C (117°F)

Typical Meas. Range, 25°C (77°F) ambient, 1 atm, air):

Dew/Frost Point: -35° to +25°C (-31° to +77°F)

Relative Humidity: equivalent to 1.5% to 100% RH

Typical Meas. Range, with 5°C cooling water at 25°C ambient, 1 atm, air:

Dew/Frost Point: -45° to +5°C (-50 to +40°F)

Required Sample Flow: 0.5 to 5.0 scfh (0.25 to 2.5 L/min)

Power: From monitor. MS-Style connector. Sensor may be mounted up 300 Ft from monitor. Connected via cable

Operating Ranges:

Ambient Temperature: -15° to +100°C (-5° to +212°F)

Pressure: 0-300 psig (0 to 21 bar)

Auxiliary Cooling: Optional with CJ-12 Cooling Jacket.

PHYSICAL:

Sensor Body Material: Stainless Steel

Sensor Wetted Material: 302, 316 SS, Silicone O-ring, BK-7 glass, rhodium or platinum mirror

Dimensions: See Drawing

Weight: 1.8 kg. (4 lb.)

Shipping Weight: 3.2 kg. (7 lb.)

ACCESSORIES:

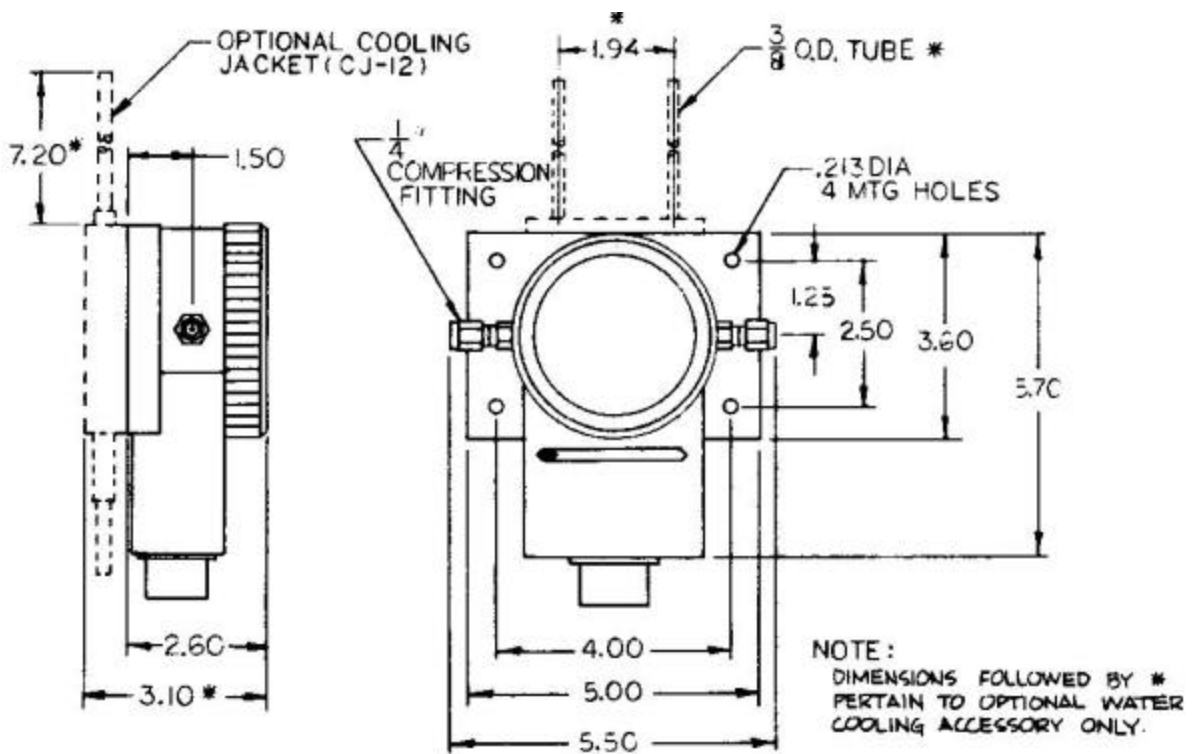
CJ-12, cooling jacket

HEX-3, rhodium-plated mirror

HEX-4, solid platinum mirror

TW-1, mirror torque wrench

1123HK, connecting Cable



Measurement & Sensing Technologies
General Eastern Instruments

500 Research Dr
Wilmington, MA 01887 USA
Tel: 978 203 1900 Fax: 978 203 1920
Email: info@geinet.com
www.generaleastern.com