



1111H-GE

SINGLE STAGE DUCT MOUNTED CHILLED MIRROR SENSOR

The Model 1111H-GE is a duct mounted single stage dew point sensor with 45°C (81°F) of depression capability. It is equipped with a mounting flange, measures 1.5" in diameter and extends 9" into the duct. The 1111H-GE is a laboratory grade humidity transfer sensor suitable for use in industrial environments. The probe is equipped with a field replaceable PTFE membrane filter and fully recovers from condensation. It has been tested both in the lab and in the field to withstand the rigors of industrial and outdoor environments. As with all of General Eastern's chilled mirror sensors, the 1111H-GE provides a direct primary measurement of dew point resulting in a humidity measurement that is certified as a NIST traceable primary reference standard.

FEATURES:

- Primary, fundamental measurement of dew/frost point.
- Hermetically-sealed, wire-wound 4-wire PRT
- Equipped with field replaceable PTFE Filter
- Suitable for use in industrial and outdoor environments
- Fully recovers from condensation
- Interchangeable with other General Eastern sensors without recalibration
- Functions with any General Eastern M series monitor
- PACER Cycle for self-cleaning & rebalancing
- Field-replaceable mirror

PERFORMANCE:

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: 1

Depression @ 25°, 1 atm, air: 45°C (81°F)

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

Dew/Frost Point: -15 to +25°C (+5 to +77°F)

Relative Humidity: Equivalent to 6% to 100%

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

FUNCTIONAL:

Operating Ranges:

Ambient Temperature: -15 to +80°C (+5 to +176°F)

Auxiliary Cooling: Not applicable

Power: From electronics

PHYSICAL:

Sensor Body Material: Epoxy-coated aluminum

Sensor Wetted Material: Aluminum, copper, mylar, teflon, rhodium or platinum mirror

Weight: 1.5 lb. (0.75 kg)

Dimensions: 1.5" dia x 9" insertion length with mounting flange & MS one way connector

Shipping Weight: 3 lbs. (1.4 kg.)

ACCESSORIES:

PTFE-GE: Replacement PTFE Filter Assembly

HEX-1: Replacement Rhodium Mirror

HEX-2: Replacement Platinum mirror

TW-1, mirror torque wrench

1123HK, sensor cable (10 ft (3 m)) standard, up to 300 ft. (91 m) available)

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