



# 1111-H

## SINGLE STAGE CHILLED MIRROR SENSOR

The Model 1111H is a general purpose, 1-stage sensor with 45°C (81°F) of depression capability. Its 1" NPT mount allows it to be installed directly in line in a standard 1" pipe tee. Alternatively, it can be mounted in the 0111D pressure boss (200 psig max.), or wall-mounted using the MB-11 adapter bracket.

### FEATURES:

- Primary, fundamental measurement of dew/frost point.
- Hermetically-sealed, wire-wound 4-wire PRT
- NIST traceability
- Interchangeable with other General Eastern sensors without recalibration
- Continuous, on-line measurement
- Infrared optics
- Field-replaceable mirror
- 45°C (81°F) depression capability

### 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:

**Power:** From electronics

**Operating Ranges:**

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

**Pressure:** -3 to 200 psig (0.8 to 15 bar)

**Auxiliary Cooling:** Not available

### PHYSICAL:

**Sensor Body Material:** Epoxy-coated aluminum

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

**Weight:** 1 lb. (0.5 kg)

**Shipping Weight:** 3 lbs. (1.4 kg.)

### ACCESSORIES:

**0111D,** pressure boss

**MB-11,** wall mounting bracket

**HEX-1,** rhodium-plated mirror (standard)

**HEX-2,** solid 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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