Applications include:

- HVAC duct systems
- Critical purged atmospheres
- Glove box environmental chambers
- Pharmaceutical testing and isolation chambers
- Engine air intake and exhaust testing
- Modified atmosphere packaging
- Semiconductor manufacturing furnace and lithography
- Medical packaging
- Dryer efficiency
- Biologics and cell culture
- Fluidized beds
- Food storage and packaging
- Air make-up for clean rooms and data centers.
- Checking polymer and metal oxide probes

Features:

- Precision, multi-sensor transmitter of dewpoint/humidity
- Primary standard chilled mirror sensor
- Provides high accuracy
- Long life, easily serviceable sensor
- Rapid response that quickly detects any change of conditions
- No false readings or accuracy drift
- First principle measurement requires no calibration
- Low cost of ownership
- Remote insertion or local wall mount sensor
- Flexible installation options
- Available with or without display
- Configurable analog outputs and alarm relay options plus bi-directional serial interface
- Communications adaptable to user requirements

Multiple display parameters:

- Dew/Frost point temperature °C/°F
- Percent relative humidity
- Parts per million by volume
- Parts per million by weight
- Grams per kilogram
- Grams per cubic meter
- Grains per pound
- Wet bulb temperature
Technical Specifications

Measurement and Performance:

Ranges (at 25°C ambient)
- Dew Point (Standard) -40°C to 60°C (-40°F to 140°F)
- Air Temperature (Optional) -40°C to 60°C (-40°F to 140°F)
- RH (Optional) 1% to 95%

Accuracy:
- Dew/Frost Point: ± 0.2°C (± 0.5gr/lb.)

Hysteresis:
Negligible

Repeatability:
- ± 0.05°C dew/frost point (±0.1gr/lb.)

Response:
1°C/sec (2.7gr/lb./sec) not including settling time

Flow Rate:
Static to 3,000 linear ft./min

Pressure:
- 100 psig maximum (consult Edgetech for elevated pressure)

Functional:

Outputs:
- Analog: 2, (4-20 mA / 0-5 VDC to 0-10 VDC selectable)
- Serial: 1, (RS-232)

Load:
- 4 to 20mA: 0 to 250 ohms
- 0 to 5/10 VDC: 1 k ohm or higher

Relay Outputs:
- 2 programmable alarm relays:
  - K1: clean mirror / alarm 1
  - K2: servolock / alarm 2
- Contact rating: normally open (NO) 3A at 25 VAC, or 30 VDC

Remote Cable:
- Dew point: 10 ft. standard, 50 ft. maximum
- Air temperature (Optional): 10 ft. standard, 50 ft. maximum

Mirror:
- Standard, chrome plated
- Optional, platinum or stainless steel
- 2 stages of cooling (TEC) with a depression of 60°C

Power Supply:
- 24 VDC ± 20%, 1A maximum

EPA Noise Level:
- < 0.02K

Weight:
- 3 lbs. (1.4 kg)

Dimensions:
- Controller, 5 in. (130 mm) W x 5 in. (130 mm) H, x 4 in. (99 mm) D
- Dew point probe, 9 in. (230 mm) L x 3 in. (80 mm) D
- Temperature probe, 10 in. (250 mm) L x 0.4 in. (10mm) D