SENTRY

Compressed Air Monitoring and Alarm System

The Edgetech Instruments SENTRY turn-key measurement and alarm system features a smart multi-sense probe that continuously monitors the dew/frost point and pressure of compressed air systems to detect compressor or dryer failures and system pressure leaks.

The SENTRY features a strobe lamp and pulsing horn plus an alarm relay contact that activate when a programmable, low pressure or high dew/frost point alarm trip point is detected. Either condition triggers the alarms. It also has a local display of the measured pressure and dew/frost point of the compressed air system plus 4 to 20 mA analog outputs, one each for measured pressure and dew/frost point at atmospheric pressure. The SENTRY is a complete system, ready for out-of-the-box installation.

All Edgetech Instruments dew/frost point monitors are manufactured and supported in the USA in a modern, ISO 9001:2015 registered facility with ISO/IEC 17025:2017 accredited calibration laboratory.

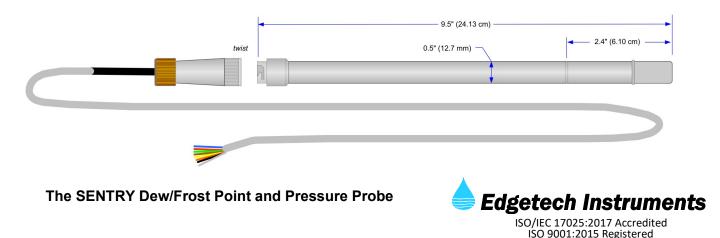
Features:

- Detects upset conditions in compressed air systems
- Constantly monitors pressure and dew/frost point temperature
- Strobe lamp and pulsing audible alarms for low pressure or high dew/frost point alert
- Displays dew/frost point and pressure on panel meter
- NIST traceable calibration certificate
- Field replaceable Smart Sensor Tip
- Alarm relay and 4 to 20 mA outputs
- Complete system, ready for installation

Click for the SENTRY Application Note

Applications:

- Compressed air headers
- Point of use compressed air
- Dry air systems for critical process
- Monitoring fluidized bed dryers
- Monitoring instrument air systems
- Pharmaceutical packaging
- Laboratories and clean rooms
- Sensitive product storage
- Monitoring purge delivery systems



Technical Specifications

Specifications:

Models:

SENTRY 85: Provides strobe lamp and 85 dB pulsing audible alarm when high dew/frost point or low pressure condition is detected

SENTRY 100: Provides strobe lamp and 100 dB pulsing audible alarm when high dew/frost point or low pressure condition is detected

Measuring Range (HPP125 Sensor Probe):

Standard Dew/Frost Point: -40°C to +95°C (-40°F to 203°F)

Low Dew/Frost Point: -60°C to +95°C (-76°F to 203°F)

Pressure: Up to 400 psia (0 to 27.6 bar)

Accuracy:

Dew/Frost Point: $\pm 1^{\circ}$ C for -10° C to 95° C and $\pm 2^{\circ}$ C for -60° C to -10° C

Pressure: At 25°C, \pm 1 mbar from 600 to 1200 mbar; over -40°C to +125°C range, \pm 5 mbar

General:

Enclosure: IP65 water resistant/dust tight Dimensions: 5 in H x 5 in W x 4 in D

(127 mm H x 127 mm W x 102mm D) Weight: 3 lb. (1.4 kg)

Display: 2 Line LCD display of pressure and dew/frost point, LED Backlit

Operating Temp.: 32°F to 122°F (0° to 50°C)

Smart Sensor Probe: Connected to control module via 1 meter cable with quick connect

Sample Connection: 1/2" Male NPT pipe fitting; Optional 3/4" or 1" male NPT pipe fitting Sample Pressure: Up to 400 psia (27.6 bar)

Power & Outputs:

Power: 90 to 230 Vac ±10%, 50 to 400 Hz, 3 meter power cord provided

Analog Outputs: Two, 4 to 20 mA outputs:

Pressure of compressed air at sensor probe in psia

Dew/frost point at 1 atmosphere pressure Alarm Relay, 1 Form C, 3 A at 250 Vac; Alarm mode is low pressure or high dew/frost point

Accessories:

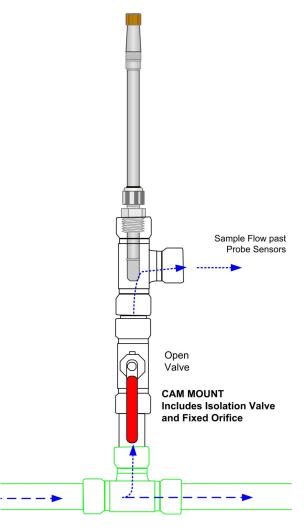
CAM: Compressed Air Module sample chamber for probe; provides sample flow to sensor probe, includes a ball valve to isolate the probe from the pressurized air source during service, 3/4 inch NPT female pipe threaded port to compressed air system take-off point

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<u>Click</u> for the Compressed Air Module (CAM) Installation Procedure





Edgetech Instruments ISO/IEC 17025:2017 Accredited ISO 9001:2015 Registered