

Edgetech Instruments Inc.

Products and Services Overview

Edgetech Instruments Inc. (ETI) is a USA company based in Massachusetts. We have over 50 years of expertise in the design and manufacture of a comprehensive range of DewPoint, RH, and Moisture sensors as well as a complimentary line of analysis instrumentation. From our early beginnings working directly with the MIT researcher that conceived the idea of using a chilled mirror to measure dew point, Edgetech Instruments has become world renown in the development of moisture analysis methods. Today we utilize a wide range of sensing technologies to measure moisture and an assortment of gas species and physical characteristics.



The chilled mirror sensor is a NIST Traceable Primary Standard Technique to measure dew point. It is very robust, has excellent accuracy, quick response time and an extremely long life characteristic. ETI offers chilled mirror sensors in a variety of configurations including remote probes in addition to local flow through sampling heads.



PRODUCT OVERVIEW

The Edgetech Advantage

Using the "**Edgetech Advantage**" each model is designed to meet your application needs. Our solutions constantly evolve as application requirements change. Our product specialists guide you through the process of matching the correct product configuration to your application or process requirements. The Edgetech Advantage provides you a path to successful measurement and control.

Common Applications for our products include:

*Compressed air drier efficiency
Furnace control & Heat treating
Pharmaceutical manufacture
Injection Molding/ Plastics
Materials/ Product testing
Engine Test Cells & Octane Testing
Glove Box applications*

*Medical Air/ Gas Purity
Atmospheric analysis from aircraft
Semiconductor manufacture
Air separation quality assurance
Laboratory Analysis/ Metrology
HVAC test cells/ System control
Process measurement and control*

Improve your bottom line with budget friendly solutions

Reduce maintenance time and costs

Eliminate inaccurate or faulty measurements

The Edgetech Advantage includes choosing the right sensor for your application:



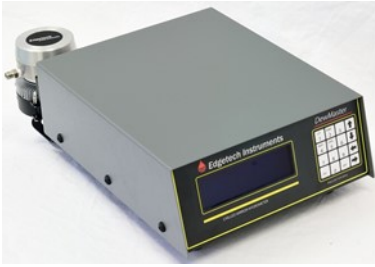
In addition to moisture analysis instrumentation, we also manufacture dew point generators, RH controlled environmental chambers, RH Probe Calibration equipment, Oxygen analyzers, and sampling systems.

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 **Edgetech Instruments**

Choice in Application Specific Systems



DewMaster

Laboratory Grade Chilled Mirror Hygrometer

Automatic Balance Control
DP/ RH/ PPM/ Temp/ Press
Now available with X3 sensor

DewTech 390 Precision Extra-Low DewPoint Chilled Mirror Hygrometer for Laboratory/ Metrology Exceptional Value



DewMaster NEMA 4 w/ Optional Chiller

Rugged, Low Dew Point
Chilled Mirror Hygrometer
Automatic Balance Control
DP/ RH/ PPM/ Temp/ Press

COM.AIR Industrial Grade Chilled Mirror Hygrometer for Compressed Gas Automatic Balance Control DewPoint/ Temp/ Pressure



Model DPS3-HTS2
High Temperature Chilled
Mirror Hygrometer w/ self
diagnostics, NEMA 4 heat-
ed enclosure, with integrat-
ed flow meter & heated
hose
Nuclear Fuel Processing
Fluidized Beds
Heat Treat
Chemical Reactor

DPM-99 Medical Grade Chilled Mirror Hygrometer for Compressed Gas Meets/ exceeds NFPA 99 for medical gas service. Hospital gas purity



Model 137 Vigilant
Chilled Mirror Hygrometer
for atmospheric monitoring
from aircraft. Remote Sensor
mounts on external fuselage.



200M
Precision Metrological
Chilled Mirror Hygrometer
Air Temp/ RH/ WB
Rugged for demanding environments



**PDM-75 Transportable
Deluxe Hygrometer**
Chilled Mirror Hygrometer
For measurement of
DewPoint, RH, Temperature



DewTrack II
Chilled Mirror
Dewpoint Transmitter
Wall Mount
Budget Friendly!

DewTrack II
Chilled Mirror
Dewpoint Transmitter
Remote Sensor Probes
Economical Solution!



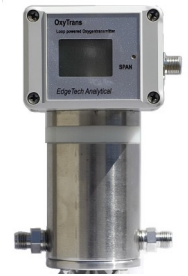
DewTrack II MO
Chilled Mirror
Transmitter for monitoring
Moisture content and
Barometric Pressure in
Octane Testing

DewTrack II
Chilled Mirror
Dewpoint Transmitter
HVAC Duct Mount



Oxymaster
for monitoring
Trace Oxygen & Moisture
contents in process gas
streams and glove box

OxyTran Transmitter
for monitoring
Trace Oxygen contents in
process gas streams Available
in Explosion Proof, Panel
Mount, and with sampling
systems



PPM2
**Portable
Trace Moisture
Transmitter**
Flow Independent
P2O5 Sensor
0.1 to 1250 PPMv
Convenient, Flexible
Package

PPM1
**Trace Moisture
Transmitter**
Flow Independent
P2O5 Sensor
0.1 to 1250 PPMv
Low Cost – Flexible!



Model 6744 with display

6700 Series
Low-Cost Dewpoint
Transmitters for com-
pressed air monitor-
ing

Model 645
Portable, Battery Operated Me-
ter - Logger
Temp/ RH/ DewPoint/ Enthalpy
Various probe options



Model 6742 without display



Calibration Equipment



ELH

Precision Controlled Humidity/ Temperature Chamber

For Calibration, Humidity Soak or Material Testing
NIST Traceable Temperature, Humidity and Dew-Point includes DewMaster Hygrometer

- Plug n' Play
- Multiple Sizes
- Programmable Humidity / Temp Cycles

RH-CAL

Self-Sufficient Humidity Calibration System for probes/ sensors using Chilled Mirror Technology
PORTABLE HUMIDITY CALIBRATOR



DEWGEN

Self-Sufficient DewPoint Generator
For calibrating probes/ sensors
Can be coupled w/ the DewMaster
PORTABLE DEWPOINT GENERATOR



Choice in Special Services

NIST Traceable Calibrations at ETI Laboratory : Single Point & Multi-point

Field Calibration at your location, NIST Traceable, Single & Multi-point

Service repair of your instrumentation at ETI Factory

Field service repair of your instrumentation at your location

Special Accuracy Calibrations

Start-Up Assistance / Product Training

Calibration of hygrometers and sensors by other manufacturers: Send in your GE Equipment!

Special extended warranty or preventive maintenance programs

Special discounts for multiple calibrations: pay for 2, get the third CAL free

Rental Equipment

Run your humidity tests at our facility lab

Innovative New Products

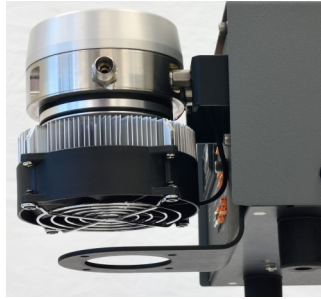
NEW X3 Chemical Resistant Chilled Mirror Sensor



X3F



X3L



X3S



X3LC extra low DP



The **X3** Chemical Resistant Chilled Mirror Sensor exploits the latest advancements in optical sensing and is *specifically designed for demanding Process and Laboratory applications*. It also offers the advantages of **low dew point detection** and **rapid response**.

FEATURES:

New **chemically resistant** sensor housing and optics **eliminate sensor failures** when working in aggressive chemical background gases.

Chamber design and high efficiency heat exchanger **improve measurement range capability**.

Reduce your maintenance budget with a long life and easy access sensor.

New compact sample chamber speeds up sample sweeping resulting in **rapid dry-down time** after exposure to high moisture levels. This results in more up-time in your lab or process

Super-Fast reaction time in detecting upset conditions from dry atmospheres can **improve product yields** and eliminate process down-times.



Flip Top Optics



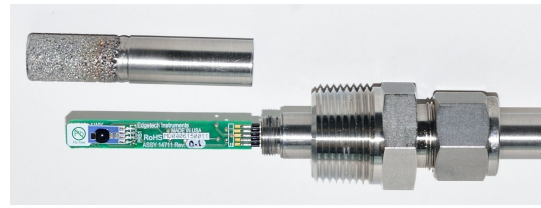
Easy to Clean the Optics

NEW HP125 Multi-Sense Humidity Probe

Relative Humidity – Temperature – DewPoint – Pressure – Barometric Pressure

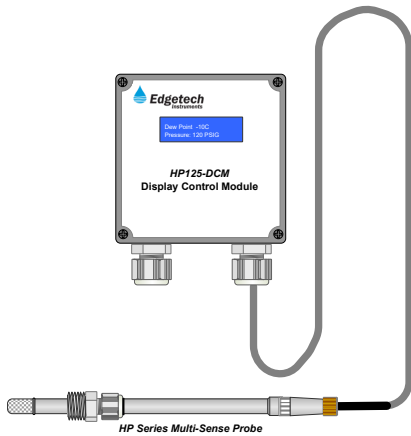


HP125 Probe

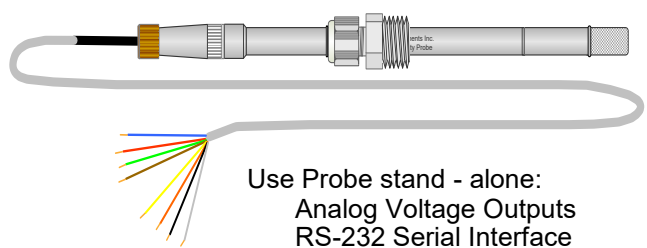


Replaceable NIST Traceable Smart Sensor Tip

Save Money on hardware: Can measure up to **4 parameters in one sensor module.**
 No need to buy other sensors. RH% DP_{calc} TEMP PRESSURE



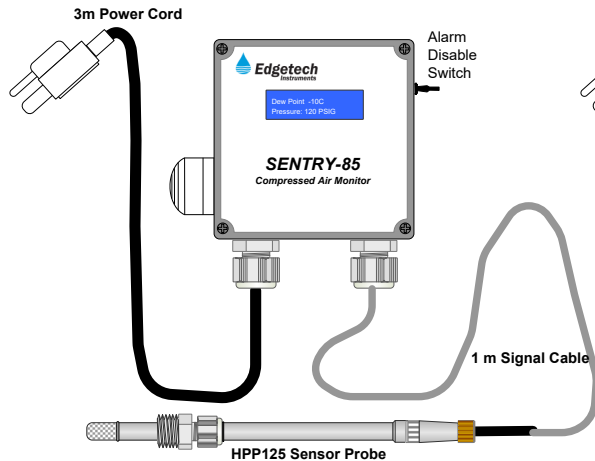
Combine Probe with Display Control Module:
 4-20 mA outputs
 RS-232 Serial Interface
 (2) Alarm Relays



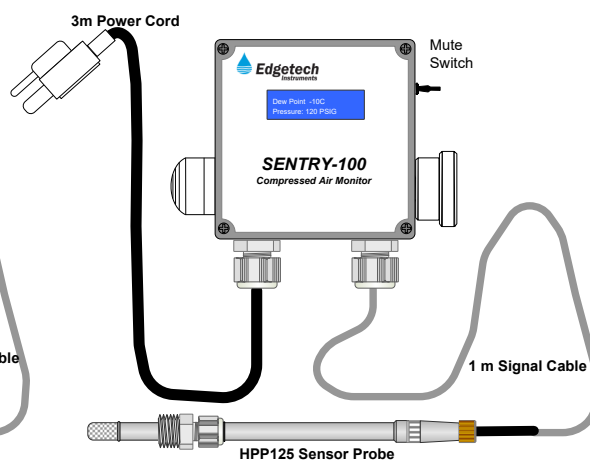
Use Probe stand - alone:
 Analog Voltage Outputs
 RS-232 Serial Interface
 24 VDC Powered

NEW SENTRY Compressed Air System Alarm

The **SENTRY** is designed to **detect low pressure or high dew point conditions** within compressed air or inert gas systems. It consists of a display control module and a **SMART, Multi-Sense Probe**. The SENTRY system continuously monitors both pressure and dew point and provides a **warning system** to alert an operator should there be a pressure loss or dryer failure. For use at the source or point of use throughout your plant.



SENTRY 85: strobe light and 85dB Audible Alarms



SENTRY 100: strobe light and 100dB Audible Alarms

Support Worksheet

Please help us guide you towards the proper product/ service for your application by completing the form below. You can call us with the information, email it in (Richard.Nyce@edgetechinstruments.com), or fax a copy to us.

NAME

EMAIL

COMPANY NAME

PHONE

1. Measurement desired? DewPoint RH PPM Temp Press O2
2. What is the target DP/ RH/ Moisture-Oxygen concentration? _____
3. What is the background gas? _____
4. What is the temperature & pressure of the sample gas? _____
5. What are the operating area temperature/ environmental conditions? _____
6. Indoors or Outdoors Installation? _____
7. Do you need to use a remote sensor probe or can the sensor be located with the analyzer? _____
8. Sampling Method? Positive Pressure Diffusion Vacuum Pump
9. Do you require a local digital Display? _____
10. What type of interface is required? Check all that apply
RS-232 Serial Port Relay Contacts output
4-20 mA Voltage analog output
Data Acquisition required (data logging to PC)
11. On-Site, field NIST Traceable Calibration or send back to Edgetech?
12. Customized System to meet your needs (please call us)
13. Is your application: Process Monitoring Process Control Laboratory
Compressed Air/ Drier Efficiency OEM Calibration Lab

Specific product that you are interested in? _____

Other, describe:

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