



Edgetech Instruments (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 & 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.

ETI's comprehensive range of robust analyzers, transmitters, and sensors allow for accurate and reliable measurements of dew-point and moisture content in a variety of applications including:

*Compressed air drier efficiency*

*Medical Air/ Gas Purity*

*Furnace control & Heat treating*

*Atmospheric analysis from aircraft*

*Pharmaceutical manufacture*

*Semiconductor manufacture*

*Injection Molding/ Plastics*

*Air separation quality assurance*

*Materials/ Product testing*

*Laboratory Analysis/ Metrology*

*Engine Test Cells & Octane Testing*

*HVAC test cells/ System control*

*Glove Box applications*

*Process measurement and control*

- **Improve** your bottom line with budget friendly solutions
- **Reduce** maintenance time and costs
- **Eliminate** inaccurate or faulty measurements

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.

**Edgetech Instruments offers you Application Specific Solutions!**

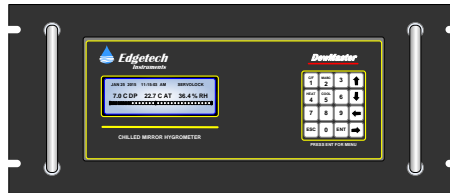
# Application Specific Solutions

## Choice in Enclosure types:

Table Top



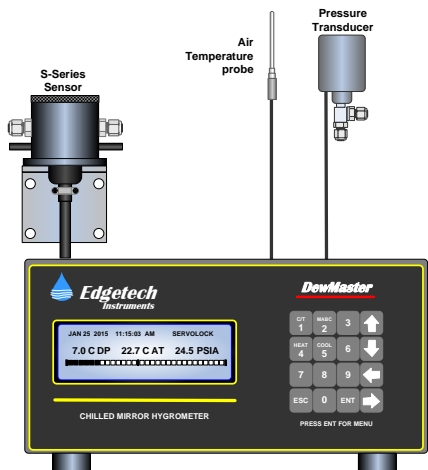
19 inch Rack Mount



NEMA 4 with Optional Chiller

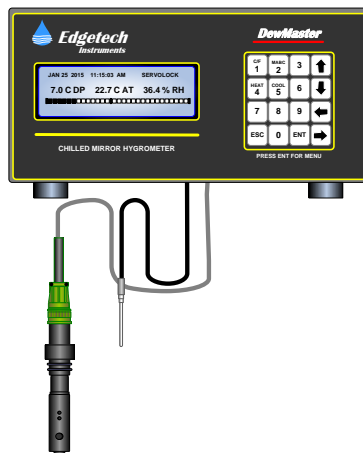


## Choice in Sensor types:

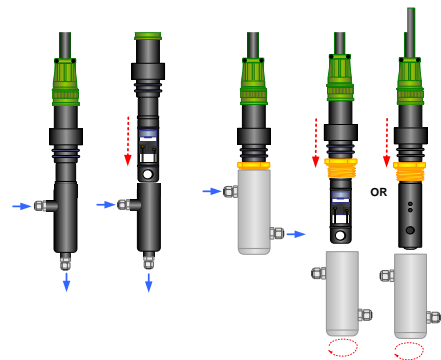


Air Temperature probe

Pressure Transducer



Flow Through Sampling with D-Probe and SC or SC1



## Choice in Sensor Construction to match your application:

Chilled Mirror Compatibility Chart

Applications CM Configuration	General Purpose Gases	Acids	Caustics	Salts	Organics	Nuclear Application	High Temperature
Chrome Plated Copper	A	D	D	C	C	D	C
316 Stainless Steel	A	B	B	B	B	C	B
Platinum	A	A	A	A	A	A	A
Teflon Coated Chamber	A	A	A	A	A	D	D
High Pressure Chamber	A	NR	NR	NR	NR	NR	A

A: Excellent

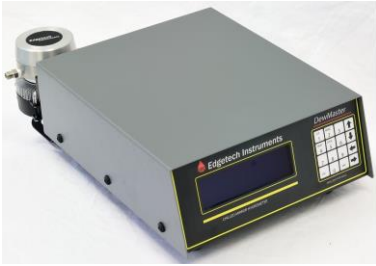
B: Good

C: Fair

D: Moderate Effect

NR: Not Recommended

## 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 heated  
enclosure, w/ integrated 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

### 1500 Battery Powered Hygrometer

**Portable  
Chilled Mirror Hygrometer**  
For measurement of  
DewPoint, RH, Temperature  
Now available with **X3 Sensor**





### 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

### PPM1 Trace Moisture Transmitter

*Flow Independent*  
P2O5 Sensor  
0.1 to 1250 PPMv  
Low Cost – Flexible!



Model 6744 with display



Model 6742 without display

### 6700 Series

Low-Cost  
Dewpoint  
Transmitters for  
compressed air  
monitoring

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



# Calibration Equipment



## ELH

### Precision Controlled

### Humidity/ Temperature Chamber

For Calibration, Humidity Soak or Material Testing

NIST Traceable Temperature, Humidity and DewPoint 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



# Accessories



## 300DP TEC Chiller

Self-Contained  
Recirculating Chiller  
using thermo-electric  
cooling – enviro friendly

### For Maximum Cooling of Chilled Mirror for Low Dew Point Measurement

300 Watt cooling capacity  
-10C chilled fluid output



## Filter Kit

For use with the chilled mirror to  
remove particulates



## SMU Pump Drive Sampler

Self-Contained diaphragm  
pump system used to direct a  
gas sample through the sensor

115/ 230 VAC operation



## Sample Flow-Through Cover

For D-Series Chilled Mirror Probe



## Serial DAQ Module Coming Soon!

Data Acquisition using Edgetech  
Instrument RS-232 serial output  
- Time/ date stamp  
- Capture into PC  
- WIFI connect & send data via email



## Air Temperature Probe

Precision PRT probe  
for use with various  
ETI chilled mirror  
products



## Pressure Transducer Kit

Measure pressure  
with various ETI  
chilled mirror  
products

# Innovative New Products

## NEW X3 Chemical Resistant Chilled Mirror Sensor



X3F



X3L



X3S

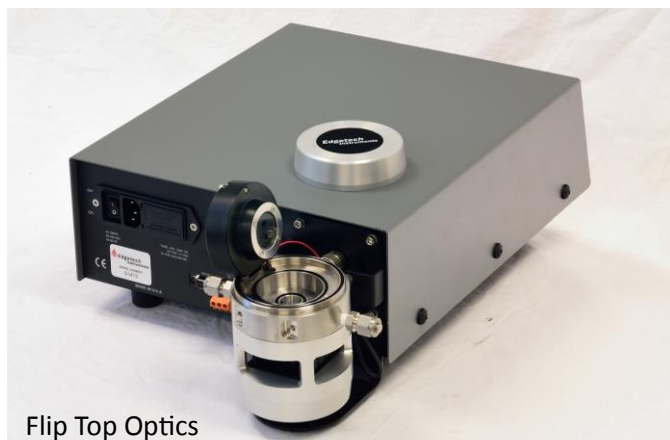


DewMaster-X3

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



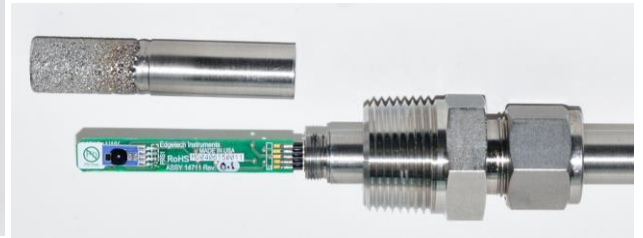
Easy to Clean the Optics

## NEW ET120 Multi-Sense Humidity Probe

Relative Humidity – Temperature – DewPoint – Pressure – Barometric Pressure



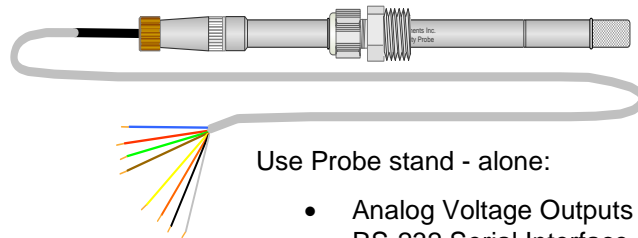
ET120 Probe



Replaceable NIST Traceable Sensor Tip

The ET120 Humidity Probe exploits the latest advancements in polymer moisture sensing technology resulting in a very flexible measurement device ideally suited for process, laboratory, R&D and OEM applications.

- **Save Money** on hardware: Can measure up to **4 parameters in one sensor module**. No need to buy other sensors.
  - RH
  - Temp
  - Calculated Dew Point
  - Pressure or
  - Barometric Pressure
- **Reduce Installation Costs:** Simplify mechanical and electrical installation with just one set of connections to the process measurement point.
- **Eliminate Process Downtime:** No need to send the entire probe in for calibration, just replace the sensor module for fast "BACK-ON-LINE"
- **Improve Accuracy and Reliability:** Each replacement sensor module comes with NIST Traceable Certificate of Calibration



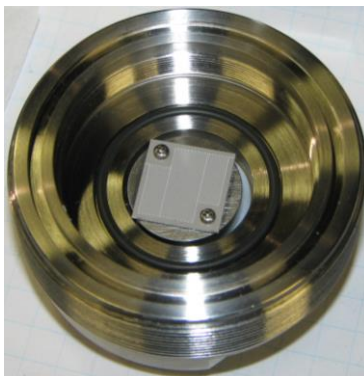
Use Probe stand - alone:

- Analog Voltage Outputs for each Sensor
- RS-232 Serial Interface
- 24 VDC Powered

Combine Probe w/ ET120ICM Interface Control Module:

- 4-20 mA outputs
- RS-232 Serial Interface
- (2) Alarm Relays
- 24 VDC Powered





Distributore esclusivo per l'Italia  
**DELTA STRUMENTI S.r.l.**  
 Via Mattei 6 - 21036 GEMONIO (VA)  
 Tel 0332 604.667 - Fax 0332 610.511  
 info@deltastrumenti.it - www.deltastrumenti.it

