



# Edgetech Instruments

## Moisture and Oxygen Measurement Products and Services Overview

**Edgetech Instruments Inc.** is a world class, global company located in Hudson, Massachusetts, USA, with over 50 years experience in the design and manufacture of a comprehensive portfolio of dew/frost point, absolute and relative humidity moisture sensors with a complimentary line of analysis instrumentation. Today we utilize a wide range of sensing technologies to measure moisture as well as oxygen concentration and other physical parameters. For more information visit [www.edgetechinstruments.com](http://www.edgetechinstruments.com).



### Technologies Include:

**Chilled Mirror Dew/Frost Point Sensors:** Primary method, for highest accuracy, from laboratory standard to process and testing applications in permanent and portable packages

**Aluminium Oxide Moisture Sensor:** For versatility, compact design, ease of use and high value in a two wire transmitter package

**Electrolytic Phosphorus Pentoxide Moisture Sensor:** For high accuracy in difficult trace moisture applications in a remotely mounted transmitter package

**Polymer Relative Humidity Sensor:** For air and environmental applications, with temperature and pressure measurement and with a replicable sensor, in a compact transmitter package

### Services Include:

**Recertification, Recalibration and Replacement Sensors:** For Edgetech Instruments Inc. analyzers as well as those made by other major manufacturers, performed in an ISO/IEC 17025:2005 accredited ISO 9001:2015 registered calibration laboratory

### Applications Include:

Compressed air drier efficiency  
Furnace control and heat treating  
Pharmaceutical manufacturing  
Injection molding and plastics  
Materials and product testing  
Engine test cells and octane testing  
Glove box applications

Medical air and gas purity  
Atmospheric analysis on aircraft  
Semiconductor manufacturing  
Air separation quality assurance  
Laboratory analysis and metrology  
HVAC test cells and system control  
Process measurement and control

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**Edgetech Instruments**  
ISO 9001:2015 Registered  
ISO/IEC 17025:2005 Accredited

# Available Application Specific Hygrometers



## DewMaster

**Laboratory Grade Chilled Mirror Hygrometer**  
Primary method, high accuracy, Automatic Balance Control. Now available with X3 sensor.

## AcuDew

**High Performance Aluminum Oxide Moisture Transmitter**  
High sensitivity at low moisture levels, fast response, Field Span Verification.



## SENTRY

**Compressed Air Monitor**  
Alarms on high dew point or low air pressure, audible and visible alarms, easy installation with Compressed Air Module valving system.

## PPM1 & PPM2

**Trace Moisture Transmitters**  
Permanent or portable, flow independent P<sub>2</sub>O<sub>5</sub> Sensor 0.1 to 1250 PPMv.



## DewMaster NEMA 4 With Optional Chiller

**Rugged, Low Dew/Frost Point Chilled Mirror Hygrometer**  
Automatic Balance Control  
Dewfrost point, RH, PPM, temperature, pressure.

## DewMaster- X3LC

**Low Dew/Frost Point Chilled Mirror Hygrometer**  
Uses the high performance X3 liquid cooled chilled mirror sensor.  
Dew/frost points to -80°C.



## PDM75-X3 Transportable Precision Hygrometer

**Portable Chilled Mirror Hygrometer**  
Precision in-the-field measurement of dew/frost point, RH, temperature.

## DewTech 390

**Precision Low Dew/Frost Point Chilled Mirror Hygrometer**  
Chilled Mirror Hygrometer for laboratory metrology. Rack or desk mount options.  
Dew/frost points to -90°C.



## Model 137 Vigilant

**Chilled Mirror Hygrometer for Atmospheric Monitoring from Aircraft**  
Remote sensor mounts on external fuselage.

## Model DPS3-HTS2

**High Dew Point, Temperature Controlled Chilled Mirror Hygrometer**  
High precision, NEMA 4 heated enclosure, integrated flow meter and heated sample hose.



# Available Application Specific Hygrometers



## DewTrack II Wall Mount

**Chilled Mirror Dew/Frost Point or RH Transmitter**  
For industrial, process and environmental applications.  
Primary method, high accuracy.

## DewTrack II With Remote Sensor

**Chilled Mirror Dew/Frost Point Transmitter**  
Multiple sensor options.  
Primary method, high accuracy.



## DewTrack II MO

**Chilled Mirror Dew/Frost Point Transmitter for Motor Octane**  
For monitoring air intake moisture content and barometric pressure in CFR Engines.

## DewTrack II Duct Mount

**Chilled Mirror Dew/Frost Point Transmitter for HVAC**  
Duct mounting. Primary method, high accuracy.



## COM.AIR

**Industrial Grade Chilled Mirror Hygrometer for Compressed Gas**  
Automatic Balance Control.  
Dew/frost point, temperature pressure.

## Model 1500

**Portable Chilled Mirror Hygrometer**  
Automatic Balance Control  
Dew/frost point, RH, PPM, temperature, pressure.  
Battery operated or ac powered.



## DPM-99

**Medical Grade Chilled Mirror Hygrometer for Compressed Gas**  
Exceeds NFPA 99 specification for medical gas service.  
Hospital gas purity.

## 200M

**Precision Meteorological Chilled Mirror Hygrometer**  
Sensor module is mounted to a pole or building. Dew/frost point, air temperature, RH, WB. Rugged for demanding environments, long life, low maintenance sensor.



## 6700 Series

**Low-Cost Dew/Frost Point Transmitters**  
For compressed air monitoring.  
Loop powered.  
With or without display.

## Model 645

**Moisture Meter - Logger**  
Temperature, RH, dew/frost point, enthalpy. Various probe options.



## OxyMaster 2 in 1

**Trace Oxygen and Moisture Content Monitor**  
For process gas streams and glove boxes.

## OxyTran Transmitter

**Trace Oxygen Content**  
For process gas streams.  
Auto-ranging. Suitable in hazardous areas. Panel mount, with sampling systems.



# Available Calibration Equipment



## RH-CAL

### **Portable Humidity Calibrator**

Self-sufficient humidity calibration system for probes and sensors using primary method chilled mirror technology.



## ELH

### **Precision Controlled Humidity and Temperature Chambers**

Calibration, humidity soak or material testing. NIST traceable temperature, humidity and dew/frost point. Includes DewMaster Hygrometer. Multiple sizes. Programmable humidity and temperature cycles.

## DEWGEN

### **Portable Dew/Frost Point Generator**

Self-Sufficient Dew/Frost Point Generator For calibrating probes/ sensors Can be coupled with the DewMaster



## Choice in Special Services

Edgetech Instruments, Inc. is ISO 9001:2015 registered and ISO/IEC 17025:2005 accredited

**NIST Traceable Calibrations: single and multi-point**

**Field Calibration: at your location, NIST traceable, single and multi-point**

**Service repair of your instrumentation at the factory in the USA**

**Field service repair of your instrumentation at your location**

**Special accuracy calibrations**

**Startup assistance/ product training**

**Calibration of hygrometers and sensors by other manufacturers**

**Special extended warranty or preventive maintenance programs**

**Rental equipment**

**Run your humidity tests at our facility**

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