

# Model 1500

## Portable Dew Point Monitor



Finally, a portable Dew Point hygrometer that integrates the accuracy and reliability of the EdgeTech chilled mirror, with the battery life and ruggedness required for field use.

Introducing the Model 1500 portable chilled mirror hygrometer. This device incorporates all of the standard features that you've become accustomed to from EdgeTech, such as drift-free NIST traceable accuracy, low maintenance, high durability and ease of use, in a system that is ideally suited for the demands of field use. Whether you use the Model 1500 as a field transfer standard, or to spot check your process air dryness or Endo gas dew point, you'll find this system trouble-free to operate.

### A Generation of Advanced Optical Chilled Mirror Sensors

#### Features

- ▶ Primary measurement technique
- ▶ NIST Traceable
- ▶ Rechargeable Batteries
- ▶ Easily transportable in hard protective case
- ▶ Wide measurement range [-75 to 75°C]
- ▶ Microprocessor controlled
- ▶ Self balancing

The Model 1500 is a self contained system; not only is there no field assembly required, there's no need to carry around a myriad of individual components such as control boxes, sensors, cables, pumps, and power cords. Simply attach the sample line, adjust the flow (with the integral flow meter) and turn on the power. Within minutes you'll be collecting field dew point data with the same chilled mirror accuracy of a lab standard hygrometer. And with a nominal battery life of 12 hours, you will be able to collect for the entire shift or spot check your processes for several days.



# Model 1500

## Performance Specifications

### MEASUREMENT

#### RANGE:

- ▶ Dew/Frost Point: Single-Stage (S1): -10 to 122°F (-23 to 50°C)
  - Two-Stage (S2): -40 to 122°F (-40 to 50°C)
  - Three-Stage (S3): -103 to 122°F (-75 to 50°C)
- S3 sensors are not battery powered

#### ACCURACY:

- ▶ Dew/Frost Point: +/- .45°F (.25°C)

### FUNCTIONALITY

Power/Charger: 115-230 VAC, 50-600Hz  
Operating Temperature: 32 to 122°F (0 to 50°C)  
Sample Connection: 1/4" Compression Fitting  
Sample Flow Rate: 0.5 - 5 SCFH; Integral Flow Meter  
Sample Pressure: 0 - 150 p.s.i.g (higher pressures available - consult factory)

#### Outputs:

- ▶ Analog: 4 to 20mA (or 0-5VDC), -50 to 50°C or -75 to 75°C
- ▶ Compliance: 9.0VDC, 450 ohms

Display: Red LED, 0.5" tall; 8 digit alphanumeric

#### Alarm:

- ▶ Visual: Flashing "ALARM" message
- ▶ Relay: 1 Form C, NON-latching  
10A @240 VAC, 8A @24 VDC,  
1/2 HP @ 240 VAC

### PHYSICAL

- ▶ Dimensions: 14.75" H; 18" W; 7"D
- ▶ Weight: 24lbs.
- ▶ Enclosure: Plastic carrying case

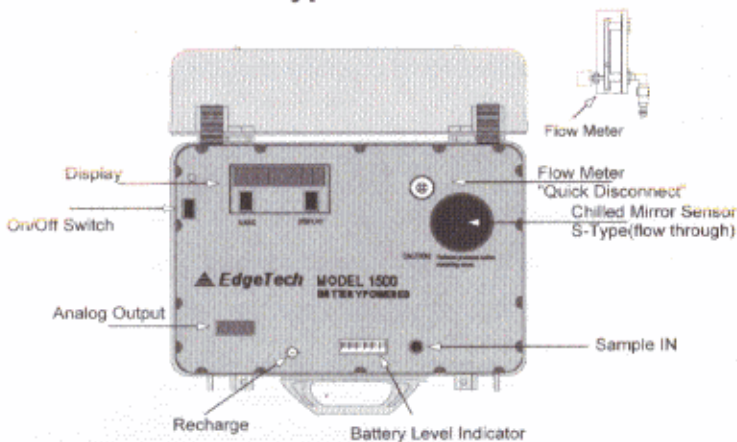
### STANDARD FEATURES

- ▶ Programmable Automatic Balance Control (ABC)
- ▶ 8-digit Alphanumeric Display
- ▶ User Programmable Alarm
- ▶ Internal Flow Meter and Valve (S-type only)
- ▶ Visual Alarms
- ▶ 4 - 20 mA (or 0-5VDC), Analog Output
- ▶ Microprocessor Controlled
- ▶ 115/230 VAC Battery Charger

### OPTIONAL FEATURES

- ▶ Temperature Probe (PRT) w/ %RH
- ▶ Live pressure w/ PPMv (S-type sensor only)
- ▶ D-Type sensors (probe style) available
- ▶ RS232
- ▶ Internal Rotary Vane Vacuum Pump

### S-Type Sensor



### D-Type Sensor

