

# DPM-99

Dew Point Monitor



## Why do I need the new DPM-99?

- ▶ Performance that exceeds the latest requirements of NFPA99 for Med Gas Dew Point Monitoring
- ▶ NIST traceable Dew Point
- ▶ Continuous Dew Point Monitoring
- ▶ Easy to install, virtually maintenance free

### **Patient Safety**

The NFPA99 has mandated that for Med Gas systems the "dew point for locally compressed air shall be monitored and alarmed per 4-3.1.9.8 and 4-3.1.1.2(f) to protect from a line pressure dew point rise to 39°F (3.9°C) from a nominal design of 35°F(1.7°C)." This safeguard was the foundation for the new EdgeTech DPM-99 Med Gas Dew Point Monitor. This specifically designed monitor exceeds the requirements set-forth by the NFPA and was a collaboration with AIRVAC Technical Services who are certified by P.I.P.E as medical gas inspectors in all 50 US states.

### **Reliable**

The DPM-99 utilizes a chilled mirror sensor, the most accurate reliable dew point sensing scheme. This primary measurement is directly traceable to N.I.S.T.. The DPM-99 also uses a modified Automatic Balance Cycle (ABC) that allows for continuous monitoring of dew point with virtually maintenance-free operation. Dew point is monitored continuously for safety in the DPM-99 in comparison to only 5% of the time as touted by other manufacturers.

### **Easy to Install**

The DPM-99 is a complete Dew Point Monitoring system. It consists of the sensor, Audible & Visual Alarms, and flow controller contained within an easily mountable ruggedized aluminum NEMA-12 enclosure. Only 1 sample line and power connections need to be made to become immediately compliant.

### **Why do I need this Dew Point Monitor?**

Because the NFPA99, section 4-5.1.5 requires dew point levels be monitored and maintained below 39°F(3.9°C). This is not only to protect expensive equipment such as ventilators and respirators but most importantly the end-user: THE PATIENT. The EdgeTech DPM-99 surpasses the requirements set-forth by the NFPA.

### **Should I upgrade?**

Older systems that are "grandfathered" should be upgraded for peace of mind that your Med Gas system is not endangering patients with dew points that are higher than the 39°F (3.9°C) mandated by the NFPA.

 **EdgeTech**

Formerly EG&G Moisture & Humidity Systems

**AIRVAC**  
Technical Services

# DPM-99

## Performance Specifications

### MEASUREMENT

- Range:
- ▶ Dew / Frost Point: -10 to 122°F (S1)
  - 45 to 122°F (S2)\*\*
- Accuracy:
- ▶ Dew / Frost Point: ±0.5°F (Entire Range)

### FUNCTIONALITY

- Power: 95-260 VAC, 50-400 Hz
- Operating Temperature:
- ▶ Control unit/sensor 32 to 122°F
- Sample Connection: 1/4 inch compression fitting
- Sample Flow: 0.5 to 5.0scfh, through integral flow meter and valve
- Sample Pressure: 0 to 150psig, 55psig nominal
- Outputs:
- ▶ Analog: 4 to 20mA
  - ▶ Range: -58 to 122°F
  - ▶ Compliance: 9.0VDC, 450ohms
- Display: 8 digit alphanumeric LED, 0.5" high, red
- Alarm:
- ▶ Audible >98db at 2ft with means to temporarily disable
  - ▶ Relay 1 Form C, non-latching, 10A @240VAC 8A@24VDC, 1/2HP @ 240VAC
  - ▶ Visual Flashing display message

### PHYSICAL

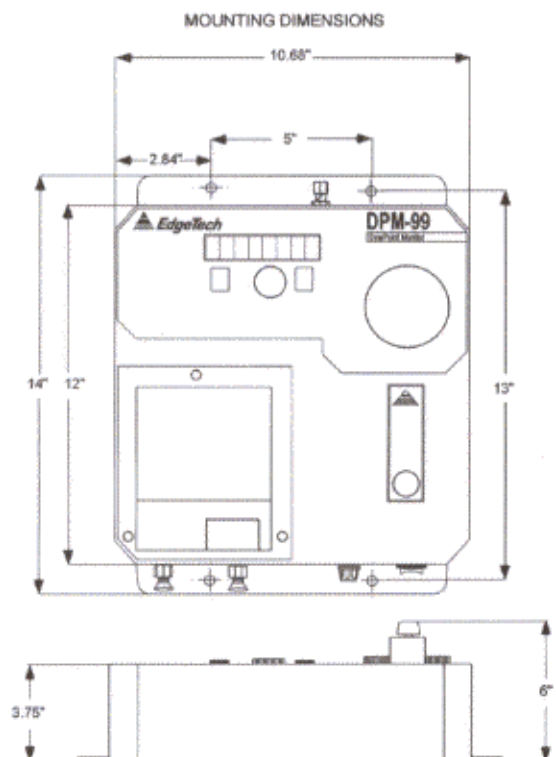
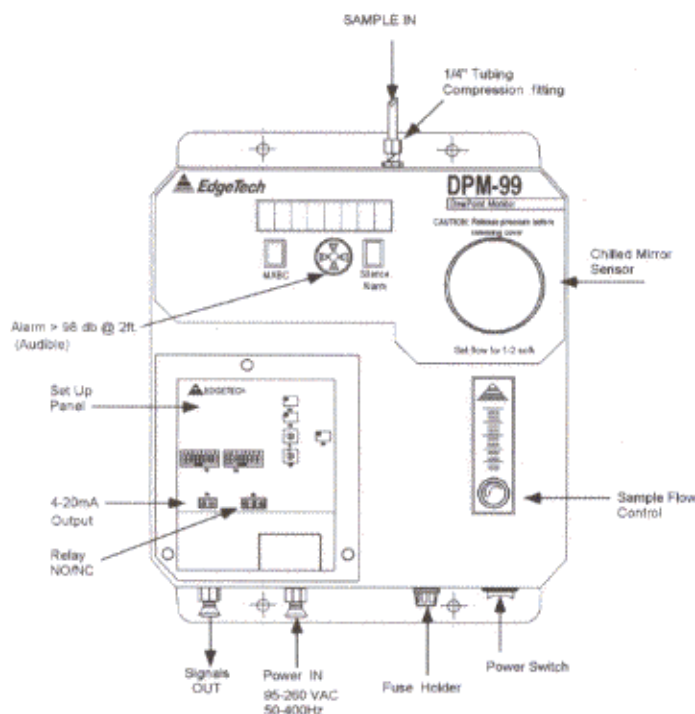
- Dimensions: 14" H, 10.7" W, 3.75" D
- Weight: 7lbs.
- Mounting: Wall mount standard
- Material: Aluminum

### STANDARD FEATURES

- ▶ Automatic Balance Control (ABC)
- ▶ Eight Digit Alphanumeric LED Display. 0.5" High
- ▶ User programmable alarm (Factory set at 39°F)
- ▶ Integral flow meter and valve
- ▶ Audible and visual alarms
- ▶ Alarm Relay, Form C
- ▶ Scratch resistant rhodium mirror
- ▶ Analog Output, 4-20mA
- ▶ Microprocessor Controlled
- ▶ Wall mounted

### OPTIONAL FEATURES

- ▶ **\*\* Low dew point kit:** 2-stage sensor (recommended for desiccant dryers)
- ▶ **Filter Kit:** In-Line particulate/coalescing filter



Toll Free: (800) 276-3729 • Ph: (508) 478-9500 • Fax: (508) 634-3010  
Email: h2o@edgetech.com • Web: www.edgetech.com

**AIRVAC**

Ph: (800) 678-1052  
Email: service@airvac.net • Web: www.airvac.net