

# DCM 28

## Dew Point and CO Monitor

The **Model DCM 28** measures Dew Point and CO in Medical Air applications. This medical gas analyzer was designed for fast, accurate and economic measurement of carbon monoxide and dew point in compliance with NFPA 99. A simple menu-driven software and LED display allow for easy and fast start-up of the instrument. The Model DCM 28 is a stand alone unit, complete with a small sampling system and all needed accessories.

**RANGES:** The CO can be measured in the range of 0-100ppm and the dew point in the range of -40°C up to 60°C.

**ALARMS:** 3 programmable alarm contacts, 1 form B 3A at 250Vac. This unit includes an alarm out via relay contacts and an audio alarm (95db). Relay set points for Dew Point, CO and Regen (Dryers).

**SENSOR OPERATING LIFE:** The CO sensor is an electrochemical sensor with a sensor life of 2 years, with a drift <5% of measuring per year. The drift can be corrected via calibration using a traceable calibration gas. The RH capacitance sensor is durable and can be either recalibrated or replaced in the field very quickly by exchanging sensor tips while maintaining the sensor accuracy.

**BENEFITS:** Compact economic instrument with sensors remotely separated from the electronics. Sensors with long operating life.

**DIMENSIONS:** 14.125" (359mm) L \* 7.875" (200mm) W  
\* 6.00" (152mm) H



### FEATURES

- ▶ 2 line LCD display (displaying CO and Dew Point)
- ▶ Audible and visual alarm
- ▶ Dew Point in °C or °F
- ▶ Includes sample system for both sensors
- ▶ Easy installation
- ▶ NFPA 99 compliant
- ▶ All housed in one enclosure

# MODEL DCM 28 SPECIFICATIONS

## CO SENSOR

**MEASURING RANGE:** 0 - 50 ppm CO  
**CALIBRATION:** with traceable calibration gas  
**ACCURACY:**  $\pm 2\%$  of full scale  
**RESOLUTION:** 0.1 ppm  
**RESPONSE TIME:** 90% of FSD at 25°C <45s  
**OPERATING TEMPERATURE:** 0 - 50°C  
**SAMPLE PRESSURE:** 0.1 - 1 barg  
**OUTPUT SIGNAL:** 4-20mA/DC isolated  
**ALARM:** 1 form B relay 3A 250V  
**VOLTAGE:** 24 VDC  
**SENSOR:** electrochemical sensor  
**SENSOR WARRANTY:** 1 year from dispatch  
**EXPECTED SENSOR LIFE:** minimum 2 years

## DEW POINT SENSOR

**MEASURING RANGE:** -40°C to 60 °C  
**CALIBRATION:** field replaceable sensor (no cal needed)  
**ACCURACY:** typical  $\pm 1^\circ\text{C}$   
**RESOLUTION:** 0.1 ppm  
**RESPONSE TIME:** 66% change in <10sec  
**OPERATING TEMPERATURE:** 0 - 50°C  
**SAMPLE PRESSURE:** 0-200psi (DP reading at pressure)  
**OUTPUT SIGNAL:** 4-20mA / DC isolated  
**ALARM:** 1 form B relay 3A 250V  
**VOLTAGE:** 24 VDC  
**SENSOR:** capacitive sensor  
**SENSOR WARRANTY:** 1 year from dispatch  
**EXPECTED SENSOR LIFE:** 2 years

