

Overview

Ohmic Instruments Model AMM-15 portable Dew Point Meter is designed to measure the performance of drying systems for air, nitrogen and other compressed gasses. Model AMM-15 is ideal for monitoring medical, commercial and industrial applications including: plastics resin dryers, breathing air, pneumatic tools, instrument air & spraying/coating applications.

The AMM-15 measures dew point by utilizing microprocessor circuitry to convert the voltage output of Ohmic's HC-600 precision water vapor sensor and a temperature sensor to dew/frost point temperature by the use of psychrometric equations. Assembled in a rugged hand held ABS plastic enclosure and equipped with quick disconnect tubing couplings and an internal sensor manifold. An orifice maintains line pressure for true pressure dew point readings. Air or industrial gases are sampled from receivers, pipes and hoses up to 175 PSIG & 140°F.

In addition, heat sink tubing is supplied for sampling from drying systems and ovens up to 550°F. The AMM-15 can also be connected to a vacuum pump for sampling from piping, tanks or manifolds operating at ambient or low pressure. The accuracy of the AMM-15 is consistent with chilled mirror hygrometers costing thousands of dollars more.

Each unit is calibrated to NIST traceable standards & supplied with a Certificate of Calibration with functional test data. Utilizing the AMM-15 to monitor plastic resins assures that the drying equipment provides the performance for consistent high quality injection molded products. Periodic monitoring of industrial air systems results in reduced maintenance costs & avoids downtime caused by freeze-ups and separated water; the leading causes of corrosion in pneumatic systems.

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PORTABLE DEW POINT METER

Ohmic AMM-15



Basic Features

- ◆ Data Logging for storing up to 200 sets of data, ideal for trend analysis
- ◆ Stored data can easily be downloaded through optional host software using an IrDA communications link
- ◆ Peak reading mode
- ◆ Charge-and-Run capability for long-term monitoring
- ◆ Convenient zero function for all gas sensors
- ◆ Infra-red CO₂ sensor
- ◆ Electrochemical O₂ sensor

Applications

- ◆ Incubators
- ◆ Mushroom Farms
- ◆ Fruit/Vegetable Storage
- ◆ Greenhouses
- ◆ Food Packing
- ◆ Brewing
- ◆ Carbonated Drink Dispensing
- ◆ Blended Beer Gases



OHMIC AMM-15

SPECIFICATIONS

Water Vapor Sensor	HC-600 (Integrated Thin Film Polymer)
Temperature Sensor	10K NTC Thermistor
Dew Point Range	-40 to +80 °F (-40 to +27°C)
Dry Bulb Temperature Range	0-200 °F (-18 to 93°C)
Dew Point Accuracy	±4 °F Dew point from -40 to +20°F ±2 °F Dew point from +20 to +80°F
Dry Bulb Accuracy	±1 °F
Maximum Inlet Temperature	140 °F (Heat Sink Tubing Permits Maximum Inlet Temperature to 550 °F)
Sensor Response Time	10 Seconds for 63% Step Change
Display Type	3-1/2 Digit LCD; 0.5"
Analog Outputs	0 to 1 V, >10 K? Impedance
Power	6 V, (4) AA Batteries & 110 V Adapter
Battery Life	50 Hours Nominal
Inlet Sample Port	Quick Disconnect for 1/4" OD Tubing
Inlet Pressure	175 PSIG Max
Computer Interface	Bi-Directional RS-232. ASCII Delimited Format, 9600 Baud, 8 Bits, 1 Stop, 1 Start, No Parity
Software Required	HyperTerminal or Pro-Com.
Data Logger	32 KByte, Non-Volatile Memory
Internal Clock	MM:DD:YY HH:MM:SS Military Time Format
Dimensions	8.25" x 4.0" x 1.6", ABS Plastic Enclosure
Weight	2 Pounds Net

ORDERING INFORMATION

AMM-15 Portable Dew-Point Meter/Logger w. Carrying Case, Heat Sink Tubing, Filter, 120 V Adapter.

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