

ohmic instruments co.

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INDUSTRIAL & ENVIRONMENTAL SENSORS, INSTRUMENTS & CONTROLS SINCE 1969

PORTABLE DEW POINT METER- MODEL AMM-15 MEASURES THE PERFORMANCE OF AIR DRYING SYSTEMS

- MICROPROCESSOR BASED PORTABLE BATTERY OPERATED INSTRUMENT
- DIGITAL DISPLAY -40 TO +80°F DEW POINT
- $\pm 4^\circ\text{F}$ FROM -40 TO +20°F
- $\pm 2^\circ\text{F}$ FROM +20 TO +80°F
- SAMPLES COMPRESSED AIR UP TO 175 PSIG
- QUICK DISCONNECT FITTING, DESICCANT TEST CARTRIDGE & HEAT-SINK TUBING SUPPLIED
- UTILIZES HC-600 THIN FILM POLYMER INTEGRATED WATER VAPOR SENSOR
- RS-232 COMPUTER INTERFACE & 32 KBYTE DATA LOGGER.



**Ideal for site surveys and compliance to ANSI/NFPA-99
"Air Quality in Hospitals and Health Care Facilities".**

Model AMM-15 hand held dew-point monitor has quick disconnect fittings for direct, fast and easy sampling of compressed air lines, plastic resin dryers, chambers and ovens. A built in data logger enables dew/frost point data to be recorded and later uploaded to a PC for documentation and analysis.

INSURE YOUR DRYING SYSTEM IS PROVIDING OPTIMUM DEW POINT

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, and spraying/coating applications.

Model AMM-15 measures dew point by utilizing micro-processor 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 and 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 and 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 and avoids downtime caused by freeze-ups and separated water; the leading causes of corrosion in pneumatic systems.

WARRANTY: All products manufactured by OHMIC Co. are warranted to be free of defects in material and workmanship for one year after delivery. Any equipment found to be defective within this period will be repaired or replaced free of charge.

SPECIFICATIONS: AMM-15

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| 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 Vdc, >10 KΩ Impedance |
| Power | 6 Vdc, (4) AA Batteries & 120 Vac 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 Vac Adapter.

In addition, OHMIC Instruments has dew/frost point station monitoring units with alarm features, portable dew point monitors with built-in sampling pumps and kits for economically installing dew point monitors in dryer panels. We also carry dew point transmitters for measurement to -40°F dew point and the ultra-dry moisture levels to -112°F. Please contact our engineers for additional information.

ENGINEERING SUPPORT: OHMIC Instruments Co. designs and manufactures a full line of environmental and bio-medical sensors, instruments and controls. Many of our products are custom designed to meet specific requirements. Our engineers will be pleased to discuss your application.



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INNOVATIVE PRODUCTS FOR THE 21st CENTURY

