

Portable / Table top Dew Point Meter

Model : DP - 151



Protects **Personnel, Plant
& Assets**



INSTANT & DIRECT MEASUREMENT OF DEW POINT, MOISTURE, VAPOR PRESSURE, HUMIDITY & TEMPERATURE

TECHNOLOGY

HNL's Model DP - 151, Dew point meter, a portable table top instrument is designed to measure the performance of compressed air and process drying systems. It is ideal for moisture monitoring in commercial and industrial applications like plastics resin dryers, breathing air, pneumatic tools, instrument air and spraying / coating plants. Monitoring of moisture in plastic resins assures a optimum performance of the drying equipment & a consistent high quality moulded products.

Periodic monitoring of industrial air systems results in a reduced maintenance cost and down time caused by condensate, the leading cause of corrosion in pneumatic system. Air or gas samples up to 12 Kg/cm³ pressure and temperature up to 75 °C can be directly measured. For further temperature applications, heat sink tubing can be used. The meter can also be connected to a vacuum pump.

For sampling from systems at low or atmospheric pressure, DP - 151 measures the dew point precisely by utilizing a highly reliable microprocessor based electronic circuit to convert the sensor signal by the use of psychometrics equations. Assembled in a ABS plastic housing, it has inbuilt sensor manifold with an orifice that maintains line pressure for true pressure dew point readings.

SPECIAL FEATURES

- Handy & light weight
- Instant direct dew point humidity & temperature reading
- Alpha numeric digital display
- Samples pressure up to 12 kg / cm²
- Inbuilt thin film water vapour sensor
- RS 232 Computer interface & data logger

APPLICATIONS

- Continuous industrial process
- Plant air lines, Air & Gas driers
- Product driers, Heat treatment
- Pharmaceuticals
- HVAC / Energy management
- Computer rooms
- Storage areas, Clean rooms

HNL Systems Pvt. Ltd.

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ORDERING INFORMATION

Dew Point
: Moisture (PPM)
: Dew Point, Humidity, Temperature
: Dew Point & Moisture (PPM)
: Dew Point, Moisture and Vapour Pressure
: Moisture (PPM), Humidity & Temperature

SPECIFICATIONS

Type	Portable / Table top
Features	Handy, light weight, instant reading, range available from -80°C to -30°C & -60°C to 30°C [Dew point], 0-23000 ppm [Moisture], 0-100%RH [Humidity] & 0 - 100 deg [Temperature]. Inbuilt thin film water vapour sensor, RS 232 computer interface & data logging.
Detectable gases / parameters	Moisture in air or gas, Dew point, Temperature, RH
Electronics / processor	Micro-controller
Power supply	Rechargeable battery with charger
Display	Alpha numeric LCD
Output	RS 232, Data logging
Sensor technology	IC Capacitive
Range resolution	Dew Point : -80°C to -30°C & -60°C to 30°C / 0 -100 % RH / Temp 0 - 100 °C
Accuracy	± 2%
Response time	Less than 10 sec
Operating temperature	0 - 55 °C
Sampling / input	Direct plug-in
Housing / case	Plastic
Included accessories	In-built pump, Data logger & RS 232
Optional accessories	Vapour pressure, moisture, other moisture units,
Applications	Dew point, Moisture measurement in air & gases
Industries	Power Plants, Air dryer manufacturers, Chemical lab, Heat treatment, Pharmaceuticals, HVAC, Energy management, Storage areas

OTHER SPECIFICATIONS

Principle	Capacitive thin film polymer
Dew point accuracy	For 0 TO + 30 °C Accuracy : ± 1 °C For - 60 To 0 °C Accuracy : ± 2.5 °C
Maximum ppressure	12 kg/cm ³
Inlet sample port	1/4" OD Tubing
Dimensions	175 X 65 X 197 mm ABS Enclosure

Note : Specifications and Features will vary with application. Due to HNL's commitment to research, design and product improvement, specifications are subject to change without notice.

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