

Portable / Handheld Dew Point Meter

Model : DP - 102



Protects **Personnel, Plant
& Assets**



HNL SYSTEM'S HANDY, LIGHT WEIGHT, INSTANT READING, INBUILT THIN FILM WATER VAPOR SENSOR WITH COMPUTER INTERFACE & DATA LOGGING DEW POINT, HUMIDITY METER

TECHNOLOGY

HNL Model DP - 102 Dew Point Meter, a portable 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. Periodic monitoring of industrial air system results in a reduced maintenance cost & down time caused by condensate air, the leading cause of corrosion in pneumatic systems.

Air or gas samples up to 12 Kg/cm³ pressure and temperature up to 75 °C can be directly measured. For higher 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 – 102 measures the dew point precisely by utilizing a highly reliable microprocessor based electronic circuit to convert the sensor signal by the use of psychometric equations. Assembled in ABS plastic housing, it has inbuilt sensor manifold with an orifice that means line pressure for true pressure & dew point readings.

SPECIAL FEATURES

- Handy and light weight
- Instant direct dew point reading
- Digital display
- Over all range -80 °C to 30 °C
- Samples pressure up to 12 Kg/cm³
- Inbuilt thin film water vapour sensor
- Optional RS 232 computer interface & data logger

APPLICATIONS

- Instant process air, process drying
- Light bulb manufacturing
- Industrial gas manufacturing
- Heat treatment
- Petrochemical / petroleum industry

HNL Systems Pvt. Ltd.

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SPECIFICATIONS

Type	Portable / handheld
Features	Handy, light weight, instant reading, range available from -80°C to -30°C & -60°C to 30°C, inbuilt thin film water vapour sensor, RS 232 computer interface & data logging, suitable for Dew point, humidity & temperature
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, datalogging
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	Leather carry case, Data logger & RS 232, In-built pump
Optional accessories	Teflon tube 2 m, Vapour pressure, Moisture, Other moisture units
Applications	Dew point and moisture measurement in air & gases
Industries	Power plants, air dryer manufacturers, chemical lab

OTHER SPECIFICATIONS

Principle	Capacitive thin film polymer
Dew point range	- 80° to + 30°C
Accuracy	For 0° to + 30°C : +/-1°C and for - 80° to 0°C : +/-2.5°C
Maximum sample temperature	75°C
Maximum pressure	12 kg/cm ³
Response time	10 sec for 63% step charge
Inlet sample port	1/4" OD tubing
Dimensions	196 X 100 X 40 mm ABS enclosure
Weight	1/2 Kg
Additional accessories	Rechargeable batteries, charger (220 V AC), filter, Desiccant cartridge, 220 V AC adaptor, heat sink tubing up to 250°C, battery operated sampling pump

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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