

# Dew Point / Moisture Analyzer

Field / Wall Mount Model : DP - 250



Protects **Personnel, Plant  
& Assets**



**INSTANT AND DIRECT MEASUREMENT OF DEW POINT, MOISTURE (PPM), VAPOUR PRESSURE, HUMIDITY AND TEMPERATURE. A MICROPROCESSOR - BASED PRECISION INSTRUMENT TO HELP ENSURE OPTIMUM OPERATION OF DRYING EQUIPMENT**

## TECHNOLOGY

HNL's DP - 250 is ideal for precise monitoring of moisture or dew point in air or gas output from dryers system or in process. Continuous monitoring of dew point results in reduced maintenance costs and downtime caused by separated moisture, the main cause of corrosion in pneumatic systems.

The analyzer uses a highly accurate capacitive integrated thin film water vapor sensor, and is an economic alternative to the chilled-mirror dew point type meters. It utilizes microprocessor based circuits to give a direct read out in dew point or other units and the units corresponding to sensor output based on psychometric equations.

To achieve higher accuracies, DP - 250 uses temperature compensation over complete operational range. The instrument is encased in a high impact plastic housing.

## SPECIAL FEATURES

- Alphanumeric LCD or LED digital display
- Fully temperature compensated
- Remote or integral sensor
- Capacitive thin film water vapor sensor
- Samples pressures up to 12 kg/cm
- Optional RS-232 computer interface
- Optional data logging facility

## APPLICATIONS

- Compressed air
- Industrial process control
- Drying system
- Protection systems
- Glove box
- Turbines
- HVAC, breathing air

**HNL Systems Pvt. Ltd.**

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## ORDERING INFORMATION

(Suffix: R - Remote, I - Integral Sensor)  
DP - 250 - Integral Sensor, DPCR - Remote Sensor  
Model DP - 250 : Dew Point °C

## SPECIFICATIONS

Type	Field wall mounted
Features:	Capacitive sensor technology, compatible with most gases, vapours, moisture measurement in PPM, high sensitivity, Zero-span - calibration, instant reading, range available from -80°C to -30°C & -60°C to 30°C,
Detectable gases / parameters	Moisture in air or gas, dew point, temperature, RH
Electronics / processor	Micro-controller
Power supply	230 V AC
Display	Graphic LCD
Alarm	Hi for wet & Low for dry P/F Contact
Output	RS 485, 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 60 sec
Operating temperature	0 - 55 °C
Sampling / input	Direct plug-in
Housing / case	Plastic
Included accessories	Datalogging, RS 485, 3m cable for sensor, sensor holder
Optional accessories	Sampling system (MS Plate) with flowmeter, explosion proof
Applications	Dew point, moisture measurement in air & gases
Industries	Power plants, air dryer manufacturers, chemical Lab

## OTHER SPECIFICATIONS

Probe	Capacitive Thin film water vapor sensor
Max sample temperature	80 °C
Max pressure	12 kg/cm <sup>3</sup>
Response time	10 sec for 63 % step change
Housing	High impact plastic
Output relay	5AMP, 220 volts rating
Dimensions	254 x 180 x 90 mm
Remote sensor	Direct Insertion 1/2 inch BSP(M) (R) (extensions cable 2 m long)
Integral sensor holder connection	Suitable for 6 mm OD Tubing (I)

*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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