

# Panel / Rack mounting Dew Point Analyzer

Model : DP - 200



Protects **Personnel, Plant  
& Assets**



**IDEAL FOR RAPID CHECK OR CONTINUOUS ONLINE ANALYSIS OF DEW POINT OR MOISTURE CONTENT OF AIR OR GAS IN DRYERS OR INDUSTRIAL PROCESSES**

## TECHNOLOGY

HNL's DP - 200, a full range of dew point analyzer uses state-of-the-art electronics to the standards & specifications. DP - 200 incorporates the most accepted & highly reliable, accurate, fast, stable and long life sensors having unique automatic calibration feature and are equipped with single or dual alarms, adjustable over the complete range.

The most important feature of the sensors system is the automatic calibration facility. Each sensor is precisely manufactured, so as to saturate with water vapour at its design maximum. Hence, when the sensor is exposed to moisture above its maximum operating range, it will rapidly come into equilibrium at its design maximum and cease to respond to any further moisture. This forms the basis of automatic calibration.

The sensor can be calibrated by simply exposing the sensor to any atmosphere, which is "wetter" than the operating range of the sensor (room air is sufficient) and adjusting the calibration control on the front panel of the instrument to display the maximum range. The sensor is re-calibrated and ready to use. Re - calibrations can be carried out insitu and without taking recourse to any special equipment or skilled personnel. The net result is the reduced downtime, minimum calibration costs & immediate verification of the system.

## SPECIAL FEATURES

- Direct digital indication - no charts or graphs
- Portable & continuous online
- Accurate to 1 PPM moisture
- Overall range - 110°C to 20°C
- For high pressure vacuum, general & hazardous area applications
- With unique automatic calibration feature -
- requires nothing but room air for calibration

## APPLICATIONS

- Chemical & petrochemical processing
- LPG processing distribution
- Electric power generation
- Metals production & treatment
- Bottled gas production & storage
- Refrigeration, Air & Gas drying
- R & D quality control labs, Energy management

**HNL Systems Pvt. Ltd.**

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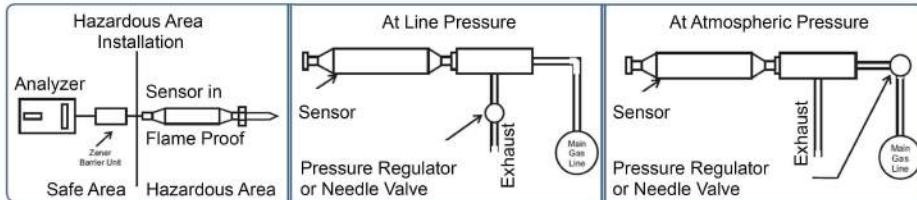
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## BASIC INSTALLATION

The sensor may be installed at line pressure or at atmospheric pressure. At atmospheric pressure, sensor is protected from condensate in the event of dryer / process failure. If required, indicators can be graduated to read dew point at line pressure, even though the sensor is operating at atmospheric pressure. Take samples from the upper surface of line to prevent any condensate reaching the sensor. Additional components may be required for specific applications.

## SPECIFICATIONS

Type	Panel / Rack mountings
Features	Reliable, accurate, stable and long life shaw sensor, auto calibration Dew point ( °C), Moisture (PPM)
Detectable gases / parameters	Moisture & dewpoint in air / gas
Electronics / processor	Analog (dew point & moisture combined)
Power supply	230 V AC
Display	LED
Alarm	Single or dual
Output	4 - 20 mA, potential free contacts
Sensor technology	Aluminium oxide (High capacitance Al <sub>2</sub> O <sub>3</sub> )
Range resolution	Dew point overall -110 to +20 °C, Humidity 0 - 23000 PPM
Accuracy	3 °C of dew point
Operating temperature	0 - 55 °C
Sampling / input	Direct plug-in
Housing / case	Aluminium
Included accessories	Power chord, tuner, 5m coax cable
Optional accessories	Sampling system
Applications	Dew Point, moisture measurement in air & gases
Industries	Power plants, air dryer manufacturers, chemical lab, all process Industries

## OTHER SPECIFICATIONS

Sensor guard	Sintered bronze
Sensor mounting	14 X 12.5 mm STD, auto thread
Sensor's active length	76.2 mm
Flow rate to sensor	2 to 5 LPM (Optimum)
Maximum operating pressure	Less than 60 Seconds
Warm up	10 sec for 63% step charge
Repeatability	0.3°C Dew Point
Automatic calibration	Potentiometric adjustment on front of panel

*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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