

# Portable / Table model Dew Point Analyzer

Model : DP - 150



Protects **Personnel, Plant  
& Assets**



**HNL'S DP - 150 DEW POINT ANALYZERS ARE 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 Model DP - 150 Dew Point Analyzer, a portable, table top instrument is designed using state-of-the-art electronics to the standards & specifications to measure the dew point or moisture content of air or gas in dryers or Industrial processes. DP - 150 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. It is ideal for rapid check or continuous online analysis of dew point or moisture content of air or gas in dryers or industrial processes.

**Automatic calibration:** 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 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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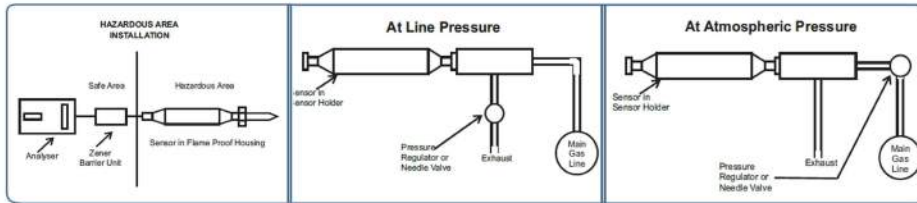
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**BASIC INSTALLATION** The sensor may be installed at line pressure or at atmospheric pressure. At atmospheric pressure, sensor is protected from condensate in the event of dryer / process failure. If required indicators can be graduated to read dew 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	:	Portable / Table model
Features:	:	Reliable, accurate, stable & long life shaw sensor, auto calibration, Dew point (deg. C) / Moisture (PPM) analyzer.
Max numbers of sensors / parameters	:	1
Detectable gases / Parameters	:	Moisture & Dew point in air or gas
Electronics / Processor	:	Micro-controller (Dew point & moisture combined)
Power supply	:	Rechargeable battery with charger
Battery life	:	8 - 10 hours
Display	:	Alpha numeric LCD
Alarm	:	Single or dual
Output	:	N/A
Sensor Technology	:	Aluminium oxide (high capacitance Al <sub>2</sub> O <sub>3</sub> )
Range / resolution	:	Dew point, overall -110 to +20 degree C / Humidity 0 - 23000 PPM
Accuracy	:	3 deg C of dew point
Response time	:	Less than 60 sec for wet to dry
Operating temperature	:	0 ~55 deg C
Sampling / Input	:	Direct plug-in
Calibration	:	Auto calibration
Housing / Case	:	Aluminium
Included accessories / Features	:	Flowmeter at outlet, power chord / Tuner, 2 m 1/4" Teflon tube, leather case
Optional accessories / Features	:	Sampling system, Reading in any units (deg F, PPB, etc )
Delivery term	:	3 - 4 weeks
Applications	:	Dew point, moisture measurement in air & gases
Industries	:	Power plants, Air dryer manufacturers, Chemical lab, Heat Treatment, Pharmaceuticals, HVAC, Energy management, Storage

## 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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