

# Absolute Moisture Analyzer

Panel / Rack Mount Model : DP - 201



Protects **Personnel, Plant  
& Assets**

FAST & DIRECT READOUT OF MOISTURE CONTENT IN CHLORINE & OTHER GASES



**FAST & DIRECT READOUT OF MOISTURE CONTENT IN CHLORINE & OTHER CORROSIVE (Cl<sub>2</sub>, HCL, H<sub>2</sub>SO<sub>4</sub>, SO<sub>2</sub> etc.) EXPLOSIVE (H<sub>2</sub>, HYDROCARBON GAS & VAPOURS), INTER GASES (N<sub>2</sub>, ARGON, AIR etc.)**

## TECHNOLOGY

This fully microprocessor controlled precision moisture analyser DP - 201 is a high technology solid state unit designed to operate in rough field service. It is available as a portable, field mounting rack / panel mounting versions. The high quality LCD display shows the moisture in PPM.

The sensor contains a highly hygroscopic solid electrolyte that absorbs moisture present in the sample and creates an electrolysis current directly proportional to the moisture content. A data of the gas flow rate and the current in the cell gives an absolute measure of the moisture contained in the sample gas.

The sensor is suitable for all corrosive & other gases and materials in contact with the sample are glass / teflon, platinum or rhodium, and the selected material of the sensor holder. The special transfer of the sample-gas through the sensor, combined with a high quality surface provides fast response and minimizes the tailing effect. This benefit is especially important when monitoring low ppm concentration. Sensor is a regeneratable and can be expedileously replaced at site.

## SPECIAL FEATURES

- Compatible with most gases / vapours
- Designed for rough field use
- High quality LCD display
- Direct PPM moisture measurement
- Fast response
- Very high sensitivity
- Zero - span calibration
- Regeneratable sensor

## APPLICATIONS

- Chemical manufacturing
- Industrial speciality gases
- Heat treating furnaces
- Compressed air
- Metallurgy
- Inert atmosphere blanketing
- Energy management

HNL Systems Pvt. Ltd.

Administrative & Sales Office: 25/N, Laxmi Industrial Estate, New Link Road, Andheri (W), Mumbai – 400 053, India. Tel : +91 22 4295 2180 / 81.

[www.hnlsystems.com](http://www.hnlsystems.com) | [sales@hnlsystems.com](mailto:sales@hnlsystems.com) | <https://www.facebook.com/HNLSYS>

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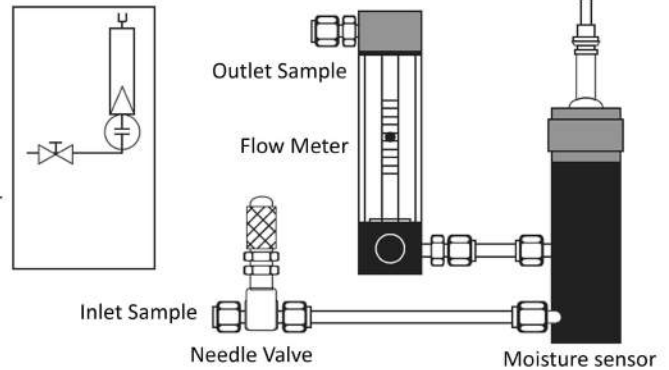
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## FLOW SCHEMATIC

Schematic Flow  
with Flow Meter  
and Separate  
Needle Valve



## SPECIFICATIONS

Type	Panel / Rack mounting
Features:	Moisture analyser, accurate, compatible with most gases / vapours, high sensitivity, regeneratable sensor, rugged.
Detectable gases / parameters	Absolute moisture in air & gases including corrosive gases
Electronics / processor	Micro-controller
Power supply	230 V AC
Display	Graphic LCD
Alarm	Single or dual
Output	Relay, analog RS 485
Sensor technology	Phosphrous pentaoxide (P <sub>2</sub> O <sub>5</sub> )
Range resolution	Moisture 0-10 / 100 / 1000 / 2000 PPM
Accuracy	± 2%
Operating temperature	0 - 55 °C
Sampling / input	Direct plug-in
Housing / case	Aluminium
Included accessories	Sampling systems, datalogging, RS 485, Signal relay output, 4-20 mA output
Optional accessories	N/A
Applications	Moisture measurement in gases, chemicals, heat treatment Furnaces, compressed air, chlorine plant
Industries	Chemical industry, speciality gas manufacturers, furnace manufacturers, chlorine plants

## OTHER SPECIFICATIONS

Sample connections	1/8 in. tube, stainless steel
Sample pressure	0.25 to 10 Bar
Sample flow	100 cc/min - controlled
Sensor body	S/S 316, monel, hastelloy (corrosion-resistant alloys), glass optional
Weight (Portable model)	1.25 Kg
Dimensions (Portable model)	175 X 65 X 197 mm
Dimensions (On-line model)	390 X 132 X 230 mm, 19" rack / panel mounting

*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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