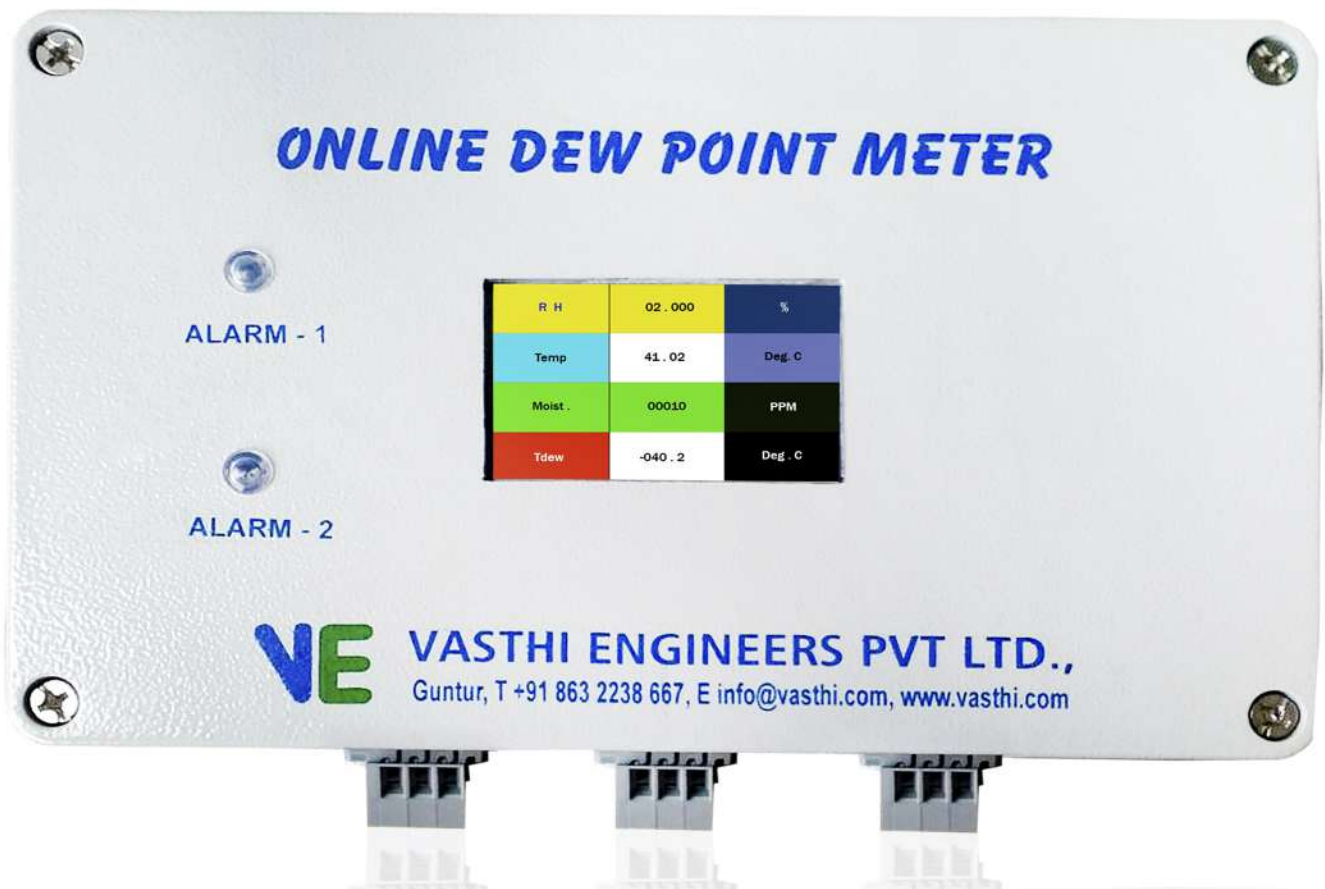


Model No : V O D M Series

# Trace Moisture/Dew Point Analyzer

**Relative humidity, Temperature,  
Moisture in PPM and Dew point  
Measurement with one  
Instrument**



# Trace Moisture/Dew Point Analyzer

An Embedded micro controller - based precision instrument to help ensuring optimum operation of draying equipment. Ideal for precise Monitoring of moisture or Dew point in air or gas output from dryers systems or in process. Continuous monitoring of dew point result in reduced maintains cost and downtime caused by separated moisture. The main cause of corrosion in pneumatic system. The analyzer uses a highly accurate Capacitive Integrated Thin Film Water vapour sensor and is an economic alternative to the chilled-mirror dew point type Meters. It utilizes embedded micro control based circuits to give a direct - read out in dew point or other units and other units corresponding to sensor output based and Psychrometric equations. To achieve high accuracy it uses temperature compensation over complete operational range.

## Applications

- Petrochemicals
- Utilities SF6 etc.
- Compressed Air
- Medical
- Nitrogen gas at the time of filling in the Transformers
- Transportation
- Aerospace
- Semiconductor
- Heat Treating
- Natural Gas
- Industrial Driers
- Pharmaceuticals
- Alternative fuels
- Military
- Environmental
- Ozone Generation
- Freeze Drying

## Services by Vasthi: -

- Evaluation
- Custom Designs
- Calibration & Certification
- Repair
- Plant visiting
- Sampling Systems

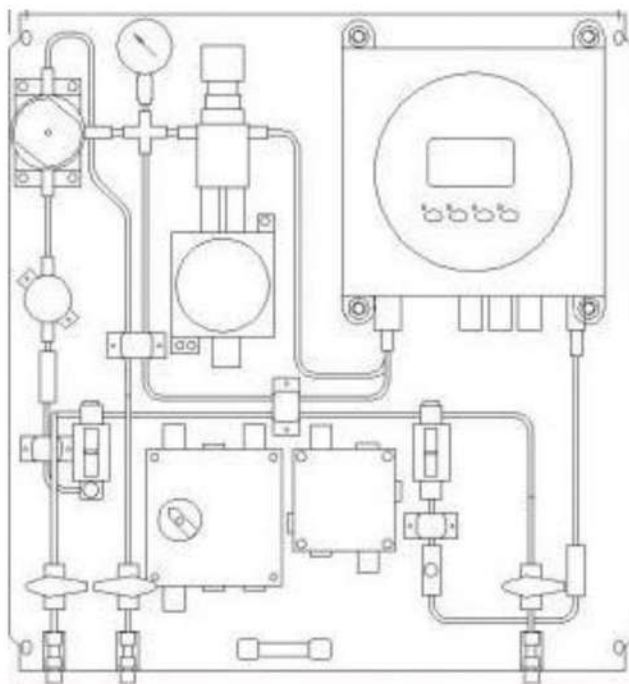
# Trace Moisture/Dew Point Analyzer

Special Features of Vasthi Dew Point meters: -

- Microprocessor based instrument.
- Digital Graphical Display Measuring range  $-100^{\circ}$  to  $+30^{\circ}$  C dew point & other ranges also available on client requirement.
- Samples compressed air up to 12 Kg/cm.
- Pressure and up to  $95^{\circ}$  C temperature can measure directly.
- Quick disconnect fitting, desiccant test.
- Handy and light weight.
- Inbuilt thin film water vapor sensor.
- Optional RS - 232 computer interface & data logger.

## Sampling System:

Different sample conditioning systems are available, standard or bespoke, according to the process conditions. Filters, pumps and regulators can all be incorporated to deliver the sample in the correct condition. Bypass flow systems enable longer distances from process to analyzer to be achieved. Vasthi engineers are ready to recommend the right system for you on receipt of the full gas stream specification.



# Trace Moisture/Dew Point Analyzer

**SAMPLING SYSTEM CONSISTS OF: -**

- ISOLATING VALVE
- VACUUM PUMP
- FLOW INDICATOR
- Drain Valve
- DUST FILTER
- SAMPLER COOLER

**Electronic Device Specifications**

Sensor Principle	: Capacitive Thin Film Polymer
Dew Point Range	: - 80 TO +30 °C
Relative Humidity	: 0.01 to 99.99 %RH
Temp.	: 0.01 to 99.99 ° C
Moisture	: 0 to 23000 PPM
Accuracy	: +/-1 % for measured value
Linearity	: 1 /- 1 %
Display	: 128 X 64 Pixels Graphical LCD
Resolution	: 1ppm for ranges <100, 10ppm for ranges >1
Operating Temperature:	0 to 50 C
Digital output	: RS 232
Analog output	: 4-20 mA
Relay output	: two level Alarms with output
Response Time	: 10 Seconds for 63% step change
Maximum Sample Temp	: 90 °C (For higher temperature use, Optional cooling coil is available)
Maximum Pressure	: 12kg/cm <sup>2</sup>
Power	: 110 V or 220 V Ac, 50 /60 Hz
Inlet Sample Port	: 1/4" OD Tubing
Sensor life	: more than 5 years
Alarms	: user adjustable or selectable
Auto Calibration facility	: software based Auto Span or Auto Zero
Enclosure	: Aluminum

**VASTHI INSTRUMENTS**

Plot no: 21 & 22 , Block no: 24, Phase - IV ,  
Auto Nagar, Guntur - 522 001, Andhra Pradesh,Inda.

Tel : +91 863 2238 667, +91 738 2708 685, +91 958 1678 685

web: [www.vasthi.com](http://www.vasthi.com),

E: [info@vasthi.com](mailto:info@vasthi.com), [sales@vasthi.com](mailto:sales@vasthi.com)