

PORTABLE DEW POINT ANALYZER

FAST & DIRECT READOUT OF MOISTURE CONTENT IN CHLORINE & OTHER CORROSIVE (HCL, H₂SO₄, SO₂, etc) EXPLOSIVE (H₂, HYDROCARBON GAS, VAPORS) AND INERT GASES (N₂, ARGON, AIR etc)

TM 100

ABSOLUTE MOISTURE ANALYZER

ENDEE's TM 100, this fully micro-controller controlled, precision moisture analyzer is a high technology solid state unit, designed to operate in rough field service. It is available as a portable, rack / panel mounting or field mounted 3 wire transmitter versions. The high quality LCD display shows the moisture in PPM or dew point temperature.



TM 100

P₂O₅ Catalytic Sensor

A dual enclosure assembly isolate the electronic from the flow system and protects it from damage. A leak may occur in the sampling system, so sampling system is preferably installed close to sample port for fast and accurate measurement.

Field proven electrolyte technology provides accurate & reliable measurement without field calibration based on Faraday's Law of Electrolysis. Sensor absorbs and electrolyzes moisture down to fractional PPMs. The sensor contains a highly hygroscopic solid electrolyte that absorbs moisture present in the sample and creates an electrolysis current proportional to the moisture content.

Data of the gas flow rate and current in the cell gives an absolute measure of the moisture contained in the sample gas. The sensor is suitable for almost all corrosive & other harsh gases. The materials in contact with the sample are selected to suit the application and it could be Teflon, glass, Platinum, rhodium.

Special transfer of sample gas through the sensor provides fast response and minimizes the tailing effect. This benefit is especially important when monitoring low PPM concentration. Sensor is a re-generatable and can be expeditiously replaced at site.

SPECIAL FEATURES

- Calibration - free accuracy
- Compatible with most gases / vapors
- Designed for rough field use
- High quality LCD display
- Direct PPM moisture measurement
- Fast response, very high sensitivity
- Zero/span - calibration, re-generatable sensor

APPLICATIONS

- Chlorine & other harsh gases
- Chemical manufacturing
- Industrial speciality gases
- Heat treating furnaces, compressed air
- Metallurgy, energy management
- Inert atmosphere blanketing
- Monitoring natural gas pipe lines

SPECIFICATIONS

Type	: Portable / Table top
Detectable gases / parameters	: Absolute moisture in air & gases (including corrosive gases)
Electronics / processor	: Micro-controller
Power supply	: Rechargeable battery with charger
Display	: Alpha numeric LCD (LED optional)
Digital Output	: RS 232, Data logging
Technology	: Phosphoreus pentoxide (P2O5)
Range	: Moisture 0 - 10 / 100 / 1000 / 2000 PPM or DP -80°C to 0°C
Accuracy	: ± 2 °C
Response time	: 90% within 60 seconds
Operating temperature	: 0 - 55 °C
Sensitivity	: 0.1 PPM
Sample connections	: 1/8" tube
Sample Flow	: 100 cc/min-controlled
Sampling	: Direct plug-in
Housing	: HI impact plastic
Accessories	: Sampling systems
Sensor body	: S/S 316, Teflon, Hastelloy, Monel, Glass Optional
Weight	: 1.25 kg approximately
Dimensions	: 175 * 65 * 197 mm approximately

Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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