

FIXED DEW POINT ANALYZER

FAST & DIRECT READOUT OF MOISTURE CONTENT IN CHLORINE & OTHER CORROSIVE, EXPLOSIVE, INERT GASES



TM 2000

ABSOLUTE MOISTURE ANALYZER

This fully micro-controller controlled precision moisture analyzer TM 2000 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 expediently replaced at site.

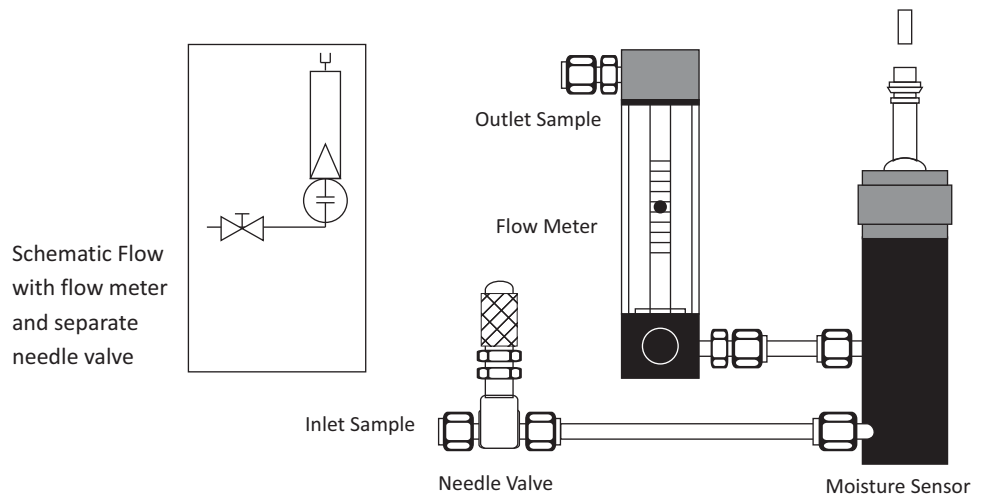
SPECIAL FEATURES

- 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

FLOW SCHEMATIC



SPECIFICATIONS

Type	: Panel / Rack mounting
Detectable gases / parameters	: Absolute moisture in air & gases including corrosive gases
Electronics / processor	: Micro-controller
Power supply	: 230 V AC / 50 Hz
Display	: Graphical LCD
Alarm	: Single or dual
Output	: 4-20 mA, Relay, RS 485
Sensor technology	: Phosphorus pentoxide (P ₂ O ₅)
Range	: Moisture 0-10 / 0-100 / 0-1000 / 0-2000 PPM
Resolution	: 0.1 PPM
Accuracy	: ± 2°C
Response Time	: 90% with 60 seconds
Operating temperature	: 0 - 55°C
Sampling	: Direct plug-in
Housing	: Aluminum
Accessories	: Sampling systems, data logging, Signal relay output
Sample connections	: 1/8" 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
Dimensions	: 390 * 132 * 230 mm, 19" rack / panel mounting

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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