Moisture Tracer MT 1000

General description

The moisture tracer MT 1000 has been designed for the detection of moisture in gases. Measurements in industrial gases and acids such as chlorines, HCl and others are possible. The measuring process is based on the absorption of water at a phosphorus pentoxide (P_2O_5) layer and the subsequent electrolytic analysis of the water. Measurements can be made in all gaseous mediums, which are not reactive with phosphoric acid. Most of the non-alkaline reacting mediums including low carbon hydroxide belong to these gaseous mediums. Lifetime of the measuring cell is nearly unlimited. The cell can be regenerated easily by the operator himself. Suitable tools for cleaning and regeneration are available. A re-calibration is not necessary. By this, follow-up costs and maintenance charges are kept very low.

Application

The analyzer MT 1000 is used where moisture measurements and observation of gas lines are necessary, as for example

- Manufacturers and users of technical gases
- Microelectronics
- Chemical industry
- Research and laboratories
- Observation of production (e.g. air, inert gases)

Moisture tracer MT 1000 (wall-mounted)

The analyzer is availalbe in three versions:

- wall mounting
- 19“ rack mount 63 or 84
- Panel or bench mount with holders and mounting feet.

The measuring cell consists of stainless steel or PVDF for a flow rate of 20l/h or 100l/h. . A portable analyzing unit or an analyzing unit for wall-mounting, equipped with a measuring cell, flow control and two-way-cock for purge and measuring mode can be connected to the electronic unit.

Operation

The moisture tracer MT 1000 can be easily connected to the facilities. The analyzer is connected to the gas line by means of a compression fitting. By using a valve, a constant gas flow (20Nl/h or 100 Nl/h) can be adjusted. The moisture tracer MT 1000 offers several analogue and digital outputs and ports. By this, a connection of measured data to bus systems, display and control inputs resp. to limit switches is possible.

Technical data:

Measuring cell:

Material	Stainless steel or plastics (PVDF)
Sample gas rate	20 Nl/h, 100 Nl/h
Sample gas temperature	5... 65 °C
Compression strength	5 bar (S/S measuring cell)
Response time	T50 < 8 sec
Gas connections	6 mm Swagelog (others possible)
Measuring cable	1,4 m; 2 pin unshielded

Measure and display unit

Measuring range	(0 ... 2000) ppm_v automatic switch-over
Display	6 lines; LCD with background illumination
Control functions	Auto calibration
	Automatic sensor detection
	Sensor check for automatic or manual sensor control
Outputs	0/4 ... 20 mA
	RS 232, Profibus, Interbus, RS 484
	Relay output as changeover contact
Operation voltage	230 VAC/50 Hz
Housing	panel/bench; 19“ rack; wall mounting

Options

- Calibration plug
- Adaptor; Fittings for gas connection
- Service carrying case
- Regeneration kit

Subject to technical changes.