

Moisture & Water Vapor TDL Analyzer For Corrosion Prevention Applications



Protect Your Assets From Corrosion

The GPro 500 moisture sensor is ideal for H₂O measurement and control in corrosive gas streams. By detecting water vapor at ppm levels, compressors and pipes can be protected from damage.



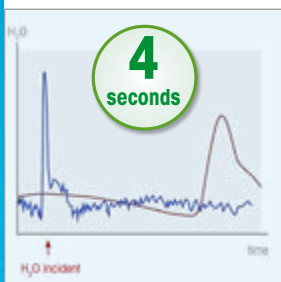
Low Maintenance and Operating Costs

This H₂O gas sensor is drift free, therefore it always provides an accurate measurement without need for calibration. It operates in situ without a maintenance-prone conditioning system.



Designed for Challenging Installations

The GPro 500 is configurable and can be paired with a variety of process adaptions to meet a wide range of installation requirements and pipe sizes.



Fast Response Time

The response time of the GPro 500 TDL moisture sensor is below 4s, which is more than 50 times faster than a P₂O₅ sensor.



GPro 500 H₂O Sensor

Reliable moisture measurement in chlorine and other corrosive gases

The GPro 500 TDL moisture sensor is designed for the measurement of H₂O levels for corrosion prevention. In situ installation can avoid risks of toxic gas leaks and the frequent maintenance typical of extractive systems. GPro 500 H₂O sensors can be used in pressures as high as 5 bar and are compatible with a variety of process adaptions, including a Wafer Cell for installation in small diameter pipes.

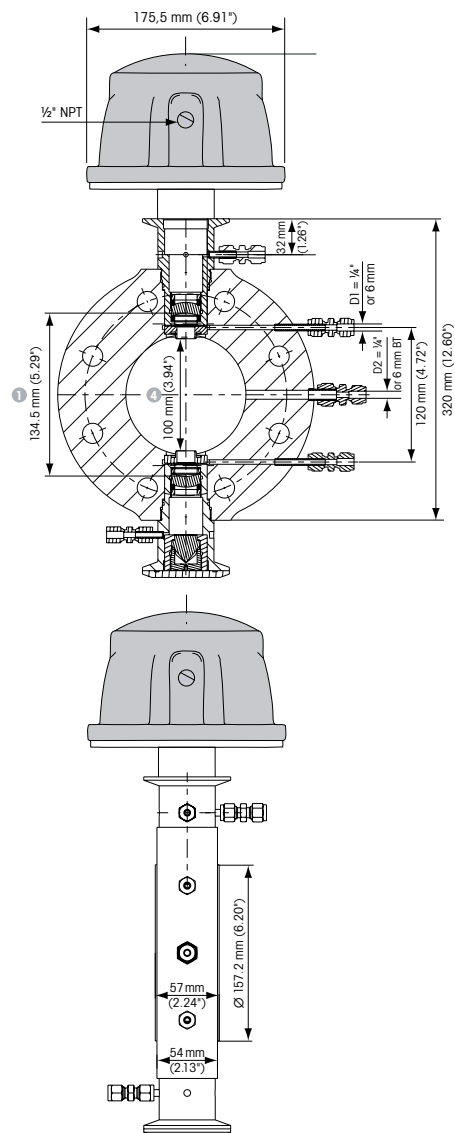
For installations where a sampling system cannot be avoided, the GPro 500 is available with a PFA Extractive Cell adaption.

In any configuration, the GPro 500 H₂O sensor offers faster and easier to maintain moisture measurement than conventional P₂O₅ technology.

Technical data of the H₂O Analyzer GPro 500

Gas measured	Moisture/water vapor
Lower detection limit	GPro 500 H₂O: 5 ppm-v GPro 500 H₂O ppm: 1 ppm-v
Measurement range	GPro 500 H₂O: 0–200,000 ppm (0–20%) GPro 500 H₂O ppm: 0–10,000 ppm (0–1%)
Accuracy	GPro 500 H₂O: 2% of reading or 10 ppm, whichever is greater GPro 500 H₂O ppm: 2% of reading or 1 ppm, whichever is greater
Linearity	Better than 1%
Resolution	GPro 500 H₂O: 5 ppm-v GPro 500 H₂O ppm: 1 ppm-v
Drift	Negligible (<2% of measurement range between maintenance intervals)
Sampling rate	1 second
Response time (T ₉₀)	H ₂ O in N ₂ 1% to 0% in <4 seconds
Repeatability	GPro 500 H₂O: ±0.25% of reading or 50 ppm-v H ₂ O (whichever is greater) GPro 500 H₂O ppm: ±0.25% of reading or 10 ppm-v H ₂ O (whichever is greater)
Process pressure range	GPro 500 H₂O: 0.8 bar–2 bar (abs)/11.6 psi–29 psi (abs) GPro 500 H₂O ppm: 0.8 bar–5 bar (abs)/11.6 psi–72.5 psi (abs)
Process temperature range	0–250 °C (32–482 °F); standard 0–600 °C (32–1112 °F) with additional thermal barrier
Effective path length	50 mm–1 m, depending on adaption

► www.mt.com/GPro500



Example installation of Wafer Cell Adaption for GPro 500

Get a complete solution tailored to your application.

GPro is a trademark of the METTLER TOLEDO Group.



Management System certified according to ISO 9001 / ISO 14001

METTLER TOLEDO Group
Process Analytics
Local contact: www.mt.com/pro-MOs

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