HCl Gas Analyzer: GPro 500

INGOLD
Leading Process Analytics

Tunable Diode Laser
For HCl Measurement

Top Performance In HCl Measurement
An HCl analyzer for challenging applications, the GPro 500 provides reliable measurement in scrubber towers, flue gas, and VCM applications.

Low Maintenance And Operating Costs
This HCl gas analyzer is designed to operate in situ without a maintenance-prone conditioning system, reducing the total cost of ownership.

Easy Installation
This is an alignment-free TDL gas analyzer, meaning that the typical challenges of TDL installation and alignment are significantly reduced.

Designed for Challenging Installations
The GPro 500 is configurable, enabling the hydrogen chloride gas analyzer's measurement system to be paired with a variety of process adaptions to meet a wide range of installation requirements.

GPro 500 TDL Spectrometer
For HCl Monitoring

The GPro® 500 hydrogen chloride (HCl) gas analyzer is a unique tunable diode laser spectrometer designed for high performance in challenging applications. It uses a folded-path laser beam design for simple installation and accurate HCl determination. This HCl gas analyzer is ideal for applications such as HCl monitoring in stacks and scrubbers. For meeting environmental and regulatory needs, these tunable diode laser gas analyzers offer a precise, reliable, and fast measurement. The GPro 500 HCl gas analyzer is installed in situ, so you get a quick response without the need to extract and condition a sample. This offers a reliable and cost-effective alternative to technologies that require extraction and conditioning of gases.

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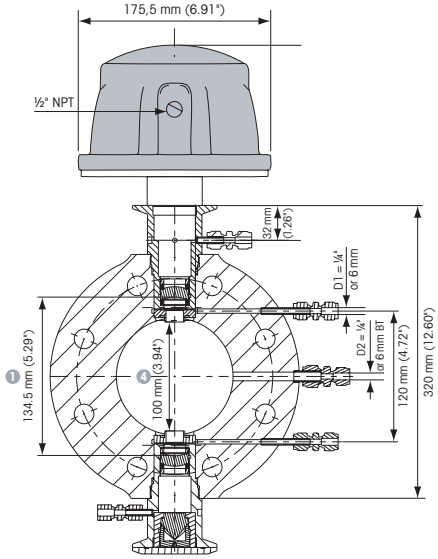
Technical data of the HCl Analyzer GPro 500[1]:

Gas measured	Hydrogen chloride
Lower detection limit	0.6 ppm-v
Measurement range	0–3 %
Accuracy	2 % of reading or 0.6 ppm, whichever is greater
Linearity	Better than 1 %
Resolution	0.6 ppm-v
Drift	Negligible (< 2 % of measurement range between maintenance intervals)
Sampling rate	1 second
Response time (T90)	HCl in N_2 1 % to 0 % in < 4 seconds
Repeatability	±0.25 % of reading or 3 ppm-v HCl (whichever is greater)
Process pressure range	0.8 bar–3 bar (abs)/11.6 psig–43.5 psig (abs)
Process temperature range	0–250 °C (32–482 °F) standard; 0–600 °C (32–1112 °F) with additional thermal barrier; 0–150 °C (32–302 °F) with PFA or PTFE filter
Effective path length	50 mm–800 mm, depending on adaption

1) Under standard conditions (1m eff. path length, standard p,T, no dust or particulates).



Example installation of Wafer Cell Adaption for GPro 500.

GPro is a registered trademark of the METTLER TOLEDO Group.

www.mt.com/HCl-Analyzer

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