

## Tunable Diode Laser For CH<sub>4</sub> ppm Measurement



### Top Performance in Methane Measurement

A CH<sub>4</sub> analyzer for challenging applications, the GPro 500 provides reliable measurement in syngas and natural gas measurement applications.



### Low Maintenance and Operating Costs

This methane gas analyzer is designed to operate in situ without a maintenance-prone conditioning system, reducing the total cost of ownership.



### Easy Installation

The GPro 500 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 ammonia gas analyzer's measurement system to be paired with a variety of process adaptations to meet a wide range of installation requirements, including pipe diameters from 50 mm to over a meter.



### GPro 500 TDL Spectrometer For CH<sub>4</sub> ppm Monitoring

The GPro™ 500 methane (CH<sub>4</sub>) gas analyzer is a unique TDL spectrometer designed for direct measurement of methane in syngas and select natural gas measurement applications. It uses a folded-path laser beam design for low maintenance measurement.

This CH<sub>4</sub> gas analyzer is ideal for process control in syngas applications. The GPro 500 methane gas analyzer is a tunable diode laser gas analyzer that offers precise, reliable and fast measurement in critical applications and is SIL 2 compatible.

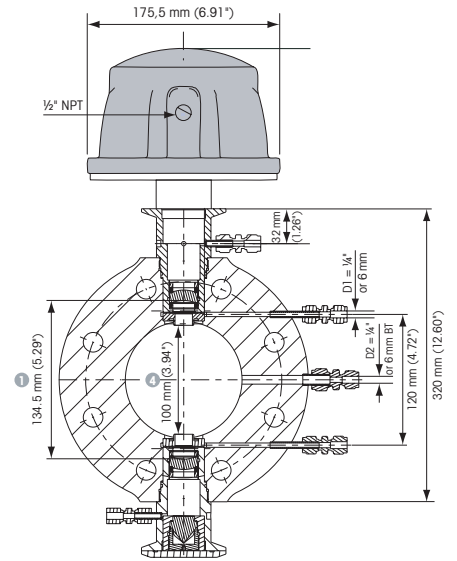
The GPro 500 CH<sub>4</sub> gas analyzer is installed in situ, so you get a quick response without the need to condition a sample. This offers a reliable and cost-effective alternative to technologies that require maintenance-prone extraction and conditioning systems.

## Technical data of the CH<sub>4</sub> ppm Analyzer GPro 500<sup>1)</sup>:

<b>Gas measured</b>	Methane (CH <sub>4</sub> )
<b>Lower detection limit</b>	1 ppm-v
<b>Measurement range</b>	0–1%
<b>Accuracy</b>	2% of reading or 1 ppm, whichever is greater
<b>Linearity</b>	Better than 1%
<b>Resolution</b>	1 ppm-v
<b>Drift</b>	Negligible (<2% of measurement range between maintenance intervals)
<b>Sampling rate</b>	1 second
<b>Response time (T90)</b>	CH <sub>4</sub> in N <sub>2</sub> 1% to 0% in <4 sec
<b>Repeatability</b>	±0.25% of reading or 5 ppm-v CH <sub>4</sub> (whichever is greater)
<b>Process pressure range</b>	0.8 bar–3 bar (abs) 11.6 psi–43 psi (abs)
<b>Process temperature range</b>	0–250 °C (32–482 °F) Standard; 0–600 °C (0–1,112 °F) with additional thermal barrier; 0–150 °C (32–302 °F) with PFA or PTFE filter
<b>Effective path length</b>	50 mm–800 mm, depending on adaption

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

► [www.mt.com/CH4-Analyzer](http://www.mt.com/CH4-Analyzer)



Example installation of Wafer Cell Adaption for GPro 500.



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Local contact: [www.mt.com/pro-MOs](http://www.mt.com/pro-MOs)

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