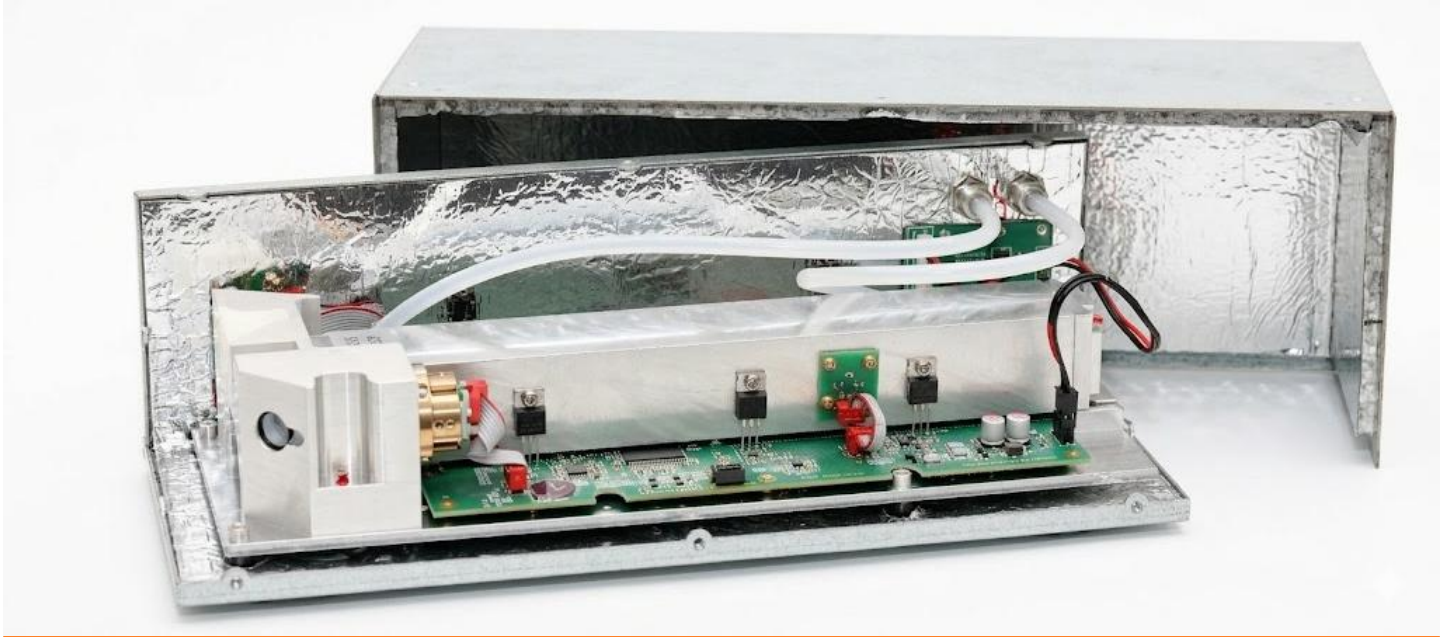


Overview



Applications

- > Emission Monitoring
- > Agriculture
- > Biogas Plants
- > LDAR / EU Methane Regulation
- > Mining & Tunelling

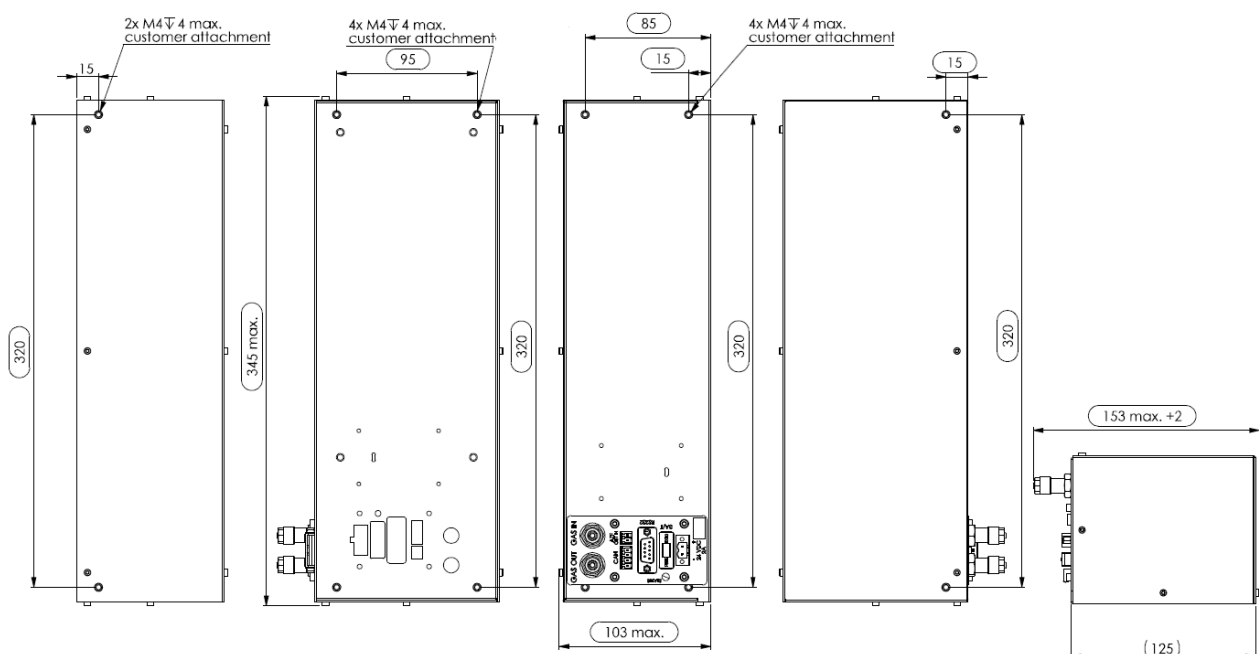
Options

- > Analogboard (0-10V)
- > O2.sens
- > Humi.sens

Features & Benefits

- > High accuracy TDLAS measuring principle
- > No interference to H₂O, CO₂ and N₂O
- > Temperature controlled at 55°C
- > Different interfaces (RS232, CANbus, Analog)
- > MARS-Tool (Datalogger and Control software)
- > Combinable with INFRA.sens (on request)

Dimensions



Subject to change without notice.

Technical Data

General features	
Measurement principle	TDLAS
Gas flow	0.1 – 3 l/min
Dimensions	345 mm × 153 mm × 103 mm
Weight	≤ 3000 g
Tube connector	4/6 mm tube
Measurement gas	Channel 1: CH ₄
Measurement range	0 – 100,000 ppm
Measuring response¹	
Warm-up time	10 sec. initial, 45 min. ²
Response time (t ₉₀)	< 5 sec ³
Noise (2·σ)	≤ 0.1 ppm ⁴
Detection limit	≤ 2 ppm ⁵
Accuracy	± 2 ppm or ± 2 % of reading (whichever is greater)
Cross sensitivity	No interference to H ₂ O, CO ₂ and N ₂ O ⁶
Zero stability	± 2 ppm per month
Update rate	≤ 1 Hz
Electrical inputs and outputs	
Supply voltage DC	(24 ± 2.5) VDC
Power consumption	< 35 W (During heat-up) ≤ 10 W (@55°C cell temperature and 25°C ambient in thermobox)
Digital output signal	RS 232 (ASCII) or CANbus <i>optional: Modbus RTU</i>
Climatic conditions	
Operating temperature	10 – 50 °C ⁷
Storage temperature	-40 – 80 °C
Air pressure	800 – 1100 hPa (mbar)
Ambient humidity	0 – 99% rel. humidity (not condensing)

Subject to change without notice.

¹ related to P_a = 1020hPa ; T_a= 25°C ; flow = 1l/min ² full specification, demands to environmental conditions. Accuracy reached only after stabilized heating
³ with standard filter settings
⁴ defined as two times the standard deviation σ of a 2 min measurement at stable ambient conditions with a filter (exponential moving average) with τ = 1s
⁵ Detection limit is defined as the lowest concentration level that can be quantified with sufficient certainty ⁶ other gases on request
⁷ stable climatic conditions recommended, please check dew point considerations