

Gasmeter Flame Ionization Detector (GFID)



Flame Ionization Detector GFID

The Gasmeter Flame Ionization Detector (GFID) is designed for continuous total hydrocarbon (THC) measurements. Gasmeter Continuous Emission Monitoring System CEMS II *ef* is equipped with GFID analyzer, offering a TÜV certified solution (QAL1) for measuring pollutants from hot, wet and corrosive gas streams.

General parameters

Measuring principle:	Fire ionization detection FID
Response time, T₉₀:	< 1.5 s
Operating temperature:	5 - 45 °C
Power supply:	115 or 230 V / 50 - 60 Hz
Power consumption:	500 VA max.
Sample flow rate:	2 l/min
Sample gas pressure:	Ambient

FID cell

Heated block temperature:	Up to 191 °C
Capillary block temperature:	Heated up to 180 °C
Converter efficiency rate:	> 99 %

Measuring parameters

Ranges:	0-10/100/1 000/10 000 ppm
Accuracy:	1 % of reading between 15 % and 100 % of full scale
Noise:	< 0.5 % of full scale
Span drift:	< 1 %/24 h
Zero drift:	< 1 %/24 h
Linearity:	< 1 % for a concentration between 10 % and 100 % of the full scale's range
Lowest detection limit:	0.05 ppm on the 10 ppm range

Utilities

Span gas:	C ₃ H ₈ or CH ₄
Burner supply:	H ₂ /He gas mixture (0.7 bar, 5 l/h) Gas cylinder (180 bar, 50 l) lasts approximately 75 days.
Oxidizer:	Instrument air

Additional features

- Internal zero air catalyst converter
- Connected to Calcmet software through analog outputs

Please refer to the CEMS II *ef* datasheet for system specific performance parameters.

Enclosure

Dimensions:	483 * 177 * 470 mm
Weight:	22 kg

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