

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 h.
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

Gasmeter Technologies Oy shall not be liable for technical or editorial errors or omissions contained herein. The information in this document is provided "as is" without warranty of any kind and is subject to change without notice. Should you find any errors, we would appreciate if you notified us.