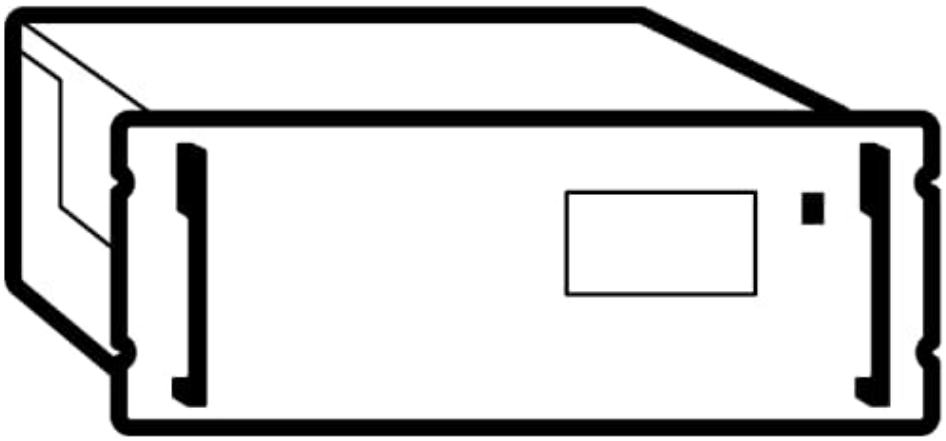
v.E.1.7



Gasmet Flame Ionization Detector (GFID)

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

Gasmet Technologies Oy
STREET ADDRESS:
Mestarintie 6
01730 Vantaa, Finland
TEL: +358 9 7590 0400
EMAIL: contact@gasmet.fi
WEB: www.gasmet.com
VAT NO: FI26818038

System specifications

Measuring principle	Flame ionization detection FID	
Response time	< 1.5 s	
Operating temperature	5 - 45 °C	
Power supply	115 or 230 V / 50 - 60 Hz	
Power consumption	500 VA max.	
Instrument air	Air consumption: Instrument air quality:	30 l/h Dry, oil and particle free
Sample flow rate	2 l/min	
Sample gas pressure	Ambient	
Product compliance	CE, UKCA	
Measuring parameters	Ranges: Accuracy: Noise: Span drift: Zero drift: Linearity: Lowest detection limit:	0-10/100/1 000/10 000 ppm 1 % of reading between 15 % and 100 % of full scale < 0.5 % of full scale < 1 %/24 h < 1 %/24 h < 1 % for a concentration between 10 % and 100 % of the full scale's range 0.05 ppm on the 10 ppm range
Utilities	Span gas: Burner supply: Oxidizer:	C_3H_8 or CH_4 H_2/He gas mixture (0.7 bar, 5 l/h) Gas cylinder (180 bar, 50 l) lasts approximately 75 days. Instrument air (30 l/h)
Additional features	Internal zero air catalyst converter Connected to Calcmet software through analog outputs Please refer to the CEMS II *e* datasheet for system specific performance parameters.	

Enclosure	Dimensions:	483 * 177 * 470 mm
	Weight:	22 kg
FID cell	Heated block temperature:	Set 180 °C
	Capillary block temperature:	Heated up to 180 °C
	Converter efficiency rate:	> 99 %