



## **Gasmeter Flame Ionization Detector (GFID)**

The Gasmeter Flame Ionization Detector (GFID) is designed for continuous total hydrocarbon (TOC) 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.

## System specifications

<b>Measuring principle</b>	Flame ionization detection FID	
<b>Response time</b>	< 1.5 s	
<b>Operating temperature</b>	5 - 45 °C	
<b>Power supply</b>	115 or 230 V / 50 - 60 Hz	
<b>Power consumption</b>	500 VA max.	
<b>Instrument air</b>	Air consumption:	30 l/h
	Instrument air quality:	Dry, oil and particle free
<b>Sample flow rate</b>	2 l/min	
<b>Sample gas pressure</b>	Ambient	
<b>Product compliance</b>	CE, UKCA	
<b>Measuring parameters</b>	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
<b>Utilities</b>	Span gas:	C <sub>3</sub> H <sub>8</sub> or CH <sub>4</sub>
	Burner supply:	H <sub>2</sub> /He gas mixture (0.7 bar, 5 l/h) Gas cylinder (180 bar, 50 l) lasts approximately 75 days.
	Oxidizer:	Instrument air (30 l/h)
<b>Additional features</b>	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 %

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