



## **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>Sample flow rate</b>	2 l/min
<b>Sample gas pressure</b>	Ambient
<b>Product compliance</b>	CE, UKCA
<b>Measuring parameters</b>	<p>Ranges: 0-10/100/1 000/10 000 ppm</p> <p>Accuracy: 1 % of reading between 15 % and 100 % of full scale</p> <p>Noise: &lt; 0.5 % of full scale</p> <p>Span drift: &lt; 1 %/24 h</p> <p>Zero drift: &lt; 1 %/24 h</p> <p>Linearity: &lt; 1 % for a concentration between 10 % and 100 % of the full scale's range</p> <p>Lowest detection limit: 0.05 ppm on the 10 ppm range</p>
<b>Utilities</b>	<p>Span gas: C<sub>3</sub>H<sub>8</sub> or CH<sub>4</sub></p> <p>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.</p> <p>Oxidizer: Instrument air (30 l/h)</p>
<b>Additional features</b>	<p>Internal zero air catalyst converter</p> <p>Connected to Calcmeter software through analog outputs</p> <p>Please refer to the CEMS II <i>ef</i> datasheet for system specific performance parameters.</p>
<b>Enclosure</b>	<p>Dimensions: 483 * 177 * 470 mm</p> <p>Weight: 22 kg</p>
<b>FID cell</b>	<p>Heated block temperature: Set 180 °C</p> <p>Capillary block temperature: Heated up to 180 °C</p> <p>Converter efficiency rate: &gt; 99 %</p>

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