

# Gasmeter™ FCX-Series



## FTIR Process Gas Analyzer

The Gasmeter FCX-Series features a comprehensive range of high performance FTIR Process Gas Analyzers. The wall mounted Gasmeter FCX Process Gas Analyzers offer reliable results even when analyzing complex gas mixtures.

The Gasmeter FCX Process Gas Analyzers incorporates a Fourier Transform Infrared spectrometer, gas cell, and signal processing electronics, a built-in Industrial Computer and a TFT-display into a compact enclosure.

The analysis results of Gasmeter FCX Process Gas Analyzer are transmitted via 4-20mA Analog Output signals or digital outputs (ModBus)

The enclosure has IP 65 protection and the analyser is equipped with Vortex cooling system.

The sample cell can be equipped with an optional heating and temperature control up to 180 °C. Sample cell absorption path length is selected according to the application.

### General parameters

<b>Measuring principle:</b>	Fourier Transform Infrared, FTIR
<b>Number of components:</b>	1-50 components
<b>Response time, T<sub>90</sub>:</b>	< 120 s, depending on the gas flow and measurement time
<b>Operating temperature:</b>	5 – 30 °C non condensing
<b>Climate Control:</b>	Vortex
<b>Storage temperature:</b>	-20 - 60°C, non condensing
<b>Power supply:</b>	100-115 or 230 V / 50-60 Hz
<b>Power consumption:</b>	500 W

### Spectrometer

<b>Resolution:</b>	8 cm <sup>-1</sup> or 4 cm <sup>-1</sup>
<b>Scan frequency:</b>	10 or 4 scans / s
<b>IR-Source:</b>	SiC, 1550 K
<b>Detector:</b>	Peltier cooled MCT
<b>Beamsplitter:</b>	ZnSe
<b>Window material:</b>	BaF <sub>2</sub> or ZnSe
<b>Wavenumber range:</b>	900 - 4200 cm <sup>-1</sup>

