

Gasmeter™ FCX-Series FTIR Gas Analyzer



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 4-20 mA 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

Measuring principle:	Fourier transform infrared, FTIR
Number of components:	1 - 50 components
Response time, T₉₀:	< 120 s, depending on the gas flow and measurement time
Operating temperature:	5 – 30 °C, non-condensing
Climate control:	Vortex
Storage temperature:	-20 - 60°C, non-condensing
Power supply:	100-115 or 230 V / 50-60 Hz
Power consumption:	500 W

Spectrometer

Resolution:	8 cm ⁻¹ or 4 cm ⁻¹
Scan frequency:	10 or 4 scans / s
IR source:	SiC, 1550 K
Detector:	Peltier cooled MCT
Beamsplitter:	ZnSe
Window material:	BaF ₂ or ZnSe
Wave number range:	900 - 4200 cm ⁻¹

