

## MULTIGAS™ ANALYZER APPLICATION

Continuous Emissions Monitoring for Compliance



### Customers

- General manufacturing / abatement facilities which need to control their emissions, such as incinerators, cement plants, glass manufacturing, etc.

### Platform

- MultiGas™ FTIR Gas Analyzers, Models 2030 or 6030, with 9mic TE-cooled detector
  - Resolution - 0.5 cm<sup>-1</sup>
  - Gas cell temperature - 191°C
  - Typical flow rate - 1 to 2 LPM
  - Measurement time - 60 sec
- Customization always available

### Advantages

- Continuous Emissions Monitoring (CEM)
- No need for liquid nitrogen

### Gas Measurements

Gas	Range
CH <sub>4</sub>	0-21, 0-70, 0-250, 0-3000 ppm
CO	0-60, 0-120, 0-500, 0-1200, 0-4500 ppm, 0-1%
CO <sub>2</sub>	0-7500 ppm, 0-20, 0-40%
H <sub>2</sub> O	0-20, 0-40%
HCl	0-9, 0-55, 0-123, 0-5000 ppm
HF	0-3.4, 0-20, 0-400 ppm
HBr	0-100 ppm
HCN	0-100 ppm
N <sub>2</sub> O	0-26, 0-51, 0-255 ppm
NH <sub>3</sub>	0-13, 0-99, 0-300, 0-3000 ppm
NO	0-149, 0-299, 0-350, 0-1119, 0-3000 ppm, 0-1%
NO <sub>2</sub>	0-24, 0-49, 0-150, 0-488, 0-2000 ppm
SO <sub>2</sub>	0-26, 0-105, 0-699, 0-300, 0-2500, 0-5000 ppm
H <sub>2</sub> SO <sub>4</sub>	0-50 ppm
SO <sub>3</sub>	0-140 ppm (however, it is typically under H <sub>2</sub> SO <sub>4</sub> form with % H <sub>2</sub> O present)
COS	0-60 ppm
Formaldehyde	0-70, 0-500 ppm
Ethane	0-1000 ppm
Propane	0-100, 0-1000 ppm
Non-Methane VOC (as formaldehyde + ethane + propane)	0-1000 ppmC