

# ProCeas® Gas Analyser

Description The ProCeas is a complete pre-calibrated multicomponent (H2S, CO, CO2, H2, H2O, HCl, HCN, HF, N2O, NH3, O2 and CH4) laser Infrared Spectrometer designed for online monitoring of combustion process, natural gas (LNG), pure gas (trace) and ambient air (trace). The ProCeas features the exclusive LPS Low Pressure Sampling System enabling efficient installation and reduced operating cost by eliminating the need for "heated" sampling system. It uses the patented OFCEAS IR laser technology for enhanced specificity, selectivity, accuracy and stability (no span or zero drift).





Applications The ProCeas analyser fulfils the requirements of waste recycling facilities, large scale methanation processes, refineries, coal seam gas, gas production lines, biogas and syngas plants. Highly durable to harsh process conditions, the ProCeas is a field proven, reliable, robust, cost-effective and user friendly solution for online process gas monitoring.

AP2e True innovation in online gas analysis, the patented OFCEAS and LPS technologies offer numerous advantages in terms of operation and performance. With the LaserCEM and ProCeas analysers, AP2e has established a strong position in a large field of application with references such as Veolia, Exxon, GDF Suez, Air liquide...

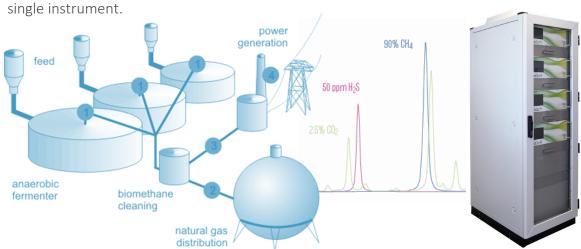
# ProCeas® Key Features

- True Direct Extractive CEMS (No sample treatment) 100mbar
   sampling pressure removes any risk of chemical adsorption,
   desorption and condensation along the sample line.
- Ease of integration The LaserCEM allows digital (Ethernet,
   RS485, RS232, ModBus) analogue and TDR IOs.
- Field proven The ProCeas is free of optical moving part and
  was designed and built strictly for industrial and on-board
  mobile applications.
- Interferences Free OFCEAS technology provides exceptional selectivity, enabling simultaneous monitoring of multicomponent without interferences, regardless of the gas matrix.
- No Drift The zero is contained in the signal, enabling automated and intrinsic zero drift compensation.
- Low maintenance The LPS system allows flow low rates within 3 and 9l/h without affecting the response time and reducing considerably dust and materials build-up.



### ProCeas® Multipoint Monitoring System

The **ProCeas** technology enables cost effective sampling solutions tailored to the needs of today's industrial applications with **automated sampling sequences** and **multipoint monitoring** enabling fast, accurate and detailed analysis of several components at various location with a



# ProCeas® Analyser - General Specifications

INTEGRATION		GAS	RANGE		LOD	
Dimensions	Standard 19" 4U rack unit - 550mm depth		min	max	min	max
Weight	20kg	Formaldehyde	10ppm	1%	1ppb	10ppm
Flow	3 to 9 lph	H2S	50ppm	10%	2ppb	100ppm
Sample	Temp 600C max.	CH4	50ppm	100%	1ppb	1000ppm
	Pressure 1 atm. +/- 100mbar at the sampling point	со	100ppm	100%	1ppb	1000ppm
Sampling Line	No heating required if: Ambient temp> 10C and H2O<40% vol.	CO2	50ppm	100%	2ppb	1000ppm
		H2	1000ppm	100%	3ppm	200ppm
	Heating required if: Ambient temp<10C and H2O>40% vol.	H2O	1ppm	100%	1ppb	1000ppm
Drift	None	HCI	5ppm	100%	1ppb	1000ppm
Response time	1s to 200 s depending on sample line	HCN	10ppm	100%	1ppb	1000ppm
Interface	5.7" touch screen	HF	10ppm	1%	1ppb	10ppm
	Windows XP / WinProceas	N2O	50ppm	100%	2ppb	1000ppm
Output	Ethernet / RS485 / RS232 / ModBus	NH3	50ppm	100%	1ppb	1000ppm
Options	ATEX - Wall mount version	02				
Power supply	110-240 VAC 50/60 Hz - 200W	02	1000ppm	100%	5ppm	1000ppm
Operating conditions	Temp 15-35C Pressure 86-108kPa	NO	5000ppm	100%	100ppb	1000ppm
Conditions	Compressed air 1-6 bar (oil free)	NO2	100ppm	100%	10ppb	1000ppm
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