



ProCeas[®] TRS Online Monitoring System

Description The ProCeas is a complete pre-calibrated multicomponent **laser Infrared Spectrometer** designed for online monitoring of **Sulphur compounds (TRS, SO₂, H₂S...)** in industrial process. 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 TRS fulfils the requirements of large chemical manufacturing facilities. Highly durable to harsh process conditions, the ProCeas is a field proven, reliable, robust and user friendly solution for online process monitoring in industrial applications such as steel industry, pulp and paper mills, refineries and sewage treatment facilities

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 including the Oil & Gas, Pharmaceutical and Chemical industries, Power Generation and Waste-to-Energy with references such as Veolia, Exxon, GDF Suez, Air liquide...

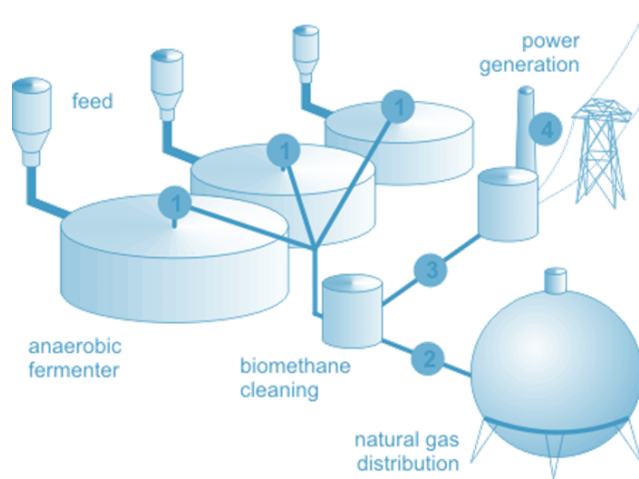
ProCeas[®] TRS Key Features

- **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® TRS Multipoint Monitoring System

The **ProCeas** technology enables sampling solutions tailored to the needs of large scale manufacturing industries with **automated sampling sequences** and **multipoint monitoring** enabling fast, accurate and detailed analysis at various location with a single instrument.



ProCeas® TRS Specifications

	INTEGRATION	GAS	RANGES	DETECTION LIMIT
Dimensions	Standard 19" 4U rack unit - 550mm depth	SO2	50 ppm min	2 ppb min
Weight	20kg		10% max	100ppm max
Flow	3 to 9 lph	H2S	50 ppm min	2 ppb min
Sample	Temp 600C max. Pressure 1 atm. +/- 100mbar at the sampling point		10% max	100ppm max
Sampling Line	No heating required if: Ambient temp > 10C and H2O < 40% vol. Heating required if: Ambient temp < 10C and H2O > 40% vol.	Please consult us for other Sulphur compounds.		
Drift	None			
Response time	10s to 200 s depending on sample line			
Interface	5.7" touch screen Windows XP / WinProceas			
Output	Ethernet / RS485 / RS232 / ModBus			
Options	ATEX - Wall mount version			
Power supply	110-240 VAC 50/60 Hz - 200W			
Operating conditions	Temp 15-35C Pressure 86-108kPa Compressed air 1-6 bar (oil free)			