

On-line monitoring

ProCeas[®] 02 analyzer

ProCeas[®]

No sample pre-treatment

No Heated Lines*

Pre-Calibrated

No interference

No Drift

Multi-Components

Low level O₂ Detection for Process Optimization

O2 Analysis for Combustion Process

The ProCeas[®] 02 is a complete pre-calibrated laser infrared spectrometer for measurement of low level 02 for process optimization.

The ProCeas® 02 uses the patented OFCEAS (WO 03031949) IR Laser technology for enhanced specificity, selectivity, accuracy and stability (no instrumental response drift.)

The ProCeas® 02 uses a patented low-pressure sampling system (WO 2010058107) enabling low-cost installation thank to non-heated lines* and reduced maintenance.

The ProCeas® 02 is a complete, reliable, robust, low-cost and easy-to-use solution for low level 02 analysis for process optimization.

ProCeas[®] Advantages & Benefits

OIRECT MEASUREMENT

No sample pre-treatment.

OFCEAS technology associated with low pressure sampling enables direct measurement. The low pressure in the sampling system removes any risk for chemicals adsorption/desorption and condensation in the line.

NO INTERFERENCE

OFCEAS technology associated with low pressure sampling provides exceptional selectivity, enabling simultaneous multi-component measurement without interferences, regardless of the matrix.

NO RE-ZERO; NO DRIFT

The zero information is contained in the signal, enabling automated and intrinsic re-zero of the analyzer.

< EASE-OF-USE

The ProCeas® is pre-calibrated for your application. Initially packaged in a standard 19" rack, it includes a touch screen interface and on-board PC for local / remote control and real time display / recording of results.

EASE-OF-INTEGRATION

The ProCeas[®] allows digital (Ethernet, RS485, RS232, ModBus), analog and TDR I/O's.

C ROBUSTNESS

The ProCeas[®] contains no optical moving parts and was designed and built strictly for industrial and on-board mobile applications.

LOW MAINTENANCE

High MTBF.

In addition to containing no moving optical components, the IR sources (telecom type laser) are characterized by MTBF's of 5 years.

CLEAN LINES / FILTERS

The low pressure sampling system enables low flow rates (3-9 L/h) without degrading response time. Accumulation of contaminants lines and filters is greatly reduced.

SAFE

ATEX compliant configuration available.

* Requires ambient temperature > 10°C and H2O < 65 % vol

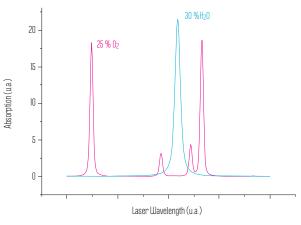


SAMPLING	
Flow Rate :	3-9 L/h
Max. Temp. :	600°C
Max. Humidity :	H2O(g) < 65% vol Standard H2O(g) > 65% vol Study Required
Pressure :	l atm. ± 100 mbar @ sampling point
Sampling Line :	Ambient Temp. > 10°C et H2O <65% vol. > Simple polytube (no heating)
	Ambient Temp. < 10°C et H2O >65% vol. > 80°C heated line
DIMENSIONS	
Size:	standard 19", 4U rack.
	550 mm depth.
Weight:	20kg
Options :	Wall mounted ATEX compliant integration
ELECTRONICS	
Display/Control :	5.7" diagonal color touch screen
PC OS :	Windows® XP®
Software:	WinProceas ©
INSTALLATION REQUIREM	ENTS
Operating Temp. :	15-35°C - Standard 10-40°C - Optional
Power supply:	200 W - 110-220VAC - 50-60Hz
Compressed Air :	1-6 bar (oil free). Not provided.

Standard :	Ethernet Protocol; RS 485 RS 232; ModBus.					
Optional :		Analog I/O; TDR I/O. Other I/O's on request				
ANALYTICAL SPÉCIFICATIONS						
	min	max	min	max		
02	1000ppm	100%	5ppm	1000ppm		
Response Time	<2 seconds.					
Zero Drift :	none					

^a adjustable range on request ^b limit of detection 3 Sigma

SPECTRA (Examples) - 200 equidistant data points over 0,2 nm



LAYOUT FROM SONIC NOZZLE TO ProCeas ANALYZER

