

ProCeas®

No sample pre-treatment

No Heated Lines*
Multi-Components

Pre-Calibrated

No interference

No Drift





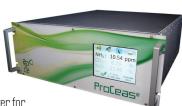


ALLIARD 201

On-line monitoring

ProCeas[®] CH4 Trace analyzer

Low level CH4 Detection in Pure Gas



- The ProCeas® CH4 is a complete pre-calibrated laser infrared spectrometer for measurement of low level CH4 in combustion process and pure gas.
- The ProCeas® CH4 uses the patented OFCEAS (WO 03031949) IR Laser technology for enhanced specificity, selectivity, accuracy and stability (no instrumental response drift.)
- The ProCeas® CH4 uses a patented low-pressure sampling system (WO 2010058107) enabling low-cost installation thank to non-heated lines* and reduced maintenance.
- The ProCeas® CH4 is a complete, reliable, robust, low-cost and easy-to-use solution for the low level CH4 analysis in combustion process and pure gas.

ProCeas®

Advantages & Benefits

DIRECT 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.

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

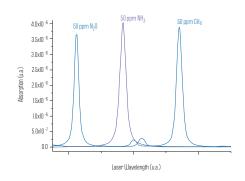
SAMPLING				
Flow Rate:	3-9 L/h			
Max. Temp. :	600°C			
Max. Humidity:	H ₂ O(g) < 65% vol Standard H ₂ O(g) > 65% vol Study Required			
Pressure:	l atm. ± 100 mbar @ sampling point			
Sampling Line:	Ambient Temp. > 10°C et H ₂ O <65% vol. > Simple polytube (no heating)			
	Ambient Temp. < 10°C et H ₂ O >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 REQUIREMENTS				
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.			

1 / 0's						
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		
СН4	50ppm	100%	lppb	1000ppm		
Optional						
N ₂ 0	50ppm	100%	2ррь	1000ppm		
NH3	50ppm	100%	lppb	1000ppm		
Response Time	<2 seconds.					
Zero Drift:	none					
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^a adjustable range on request ^b limit of detection 3 Sigma

info@ap2e.com www.ap2e.com

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



LAYOUT FROM SONIC NOZZLE TO ProCeas ANALYZER

