

ProCeas®

No sample pre-treatment

No Heated Lines*
Multi-Components

Pre-Calibrated

No interference

No Drift







ALLIARD 201

ProCeas® H2 Trace analyzer

Low level H₂ detection in chlorine Matrix (or other gas)





- The ProCeas® H₂ Trace is a complete pre-calibrated laser infrared spectrometer for for low level. H₂ detection in gas Matrix.
- The ProCeas® H2 Trace uses the patented OFCEAS (WO 03031949) IR Laser technology for enhanced specificity, selectivity, accuracy and stability (no instrumental response drift.)
- The ProCeas® H₂ Trace uses a patented low-pressure sampling system (WO 2010058107) enabling low-cost installation thank to non-heated lines* and reduced maintenance.
- The ProCeas® H2 Trace is a complete, reliable, robust, low-cost and easy-to-use solution for low level. H2 detection in gas Matrix.

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 $^{\textcircled{\tiny{0}}}$ 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

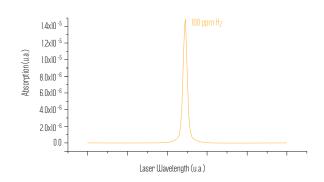
SAMPLING			
Flow Rate:	3-9 L/h		
Max. Temp. :	00°C		
Max. Humidity:	H ₂ O(g) < 65% vol Standard H ₂ O(g) > 65% vol Study Required		
Pressure:	l atm. ± 100 mbar @ sampling point		
Sampling Line:	Ambient Temp. > 10°C et H ₂ O <65% vol. > Simple polytube (no heating)		
	Ambient Temp. < 10°C et H ₂ 0 >65% 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.		

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						
				LODb		
	min	max	min	max		
H ₂	1000ppm	100%	3ppm	200ppm		
Response Time	<30 seconds.					
Zero Drift:	none					

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

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



LAYOUT FROM SONIC NOZZLE TO ProCeas ANALYZER

