

ProCeas®

No sample pre-treatment

No Heated Lines*
Multi-Components

Pre-Calibrated

No interference

No Drift





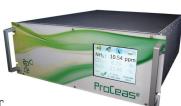


ALLIARD 201

On-line monitoring

ProCeas® HF Trace analyzer

Low level HF Detection in Amhient Air



- ☐ The ProCeas® HF is a complete pre-calibrated laser infrared spectrometer for measurement of low level HF ambient air.
- The ProCeas® HF uses the patented OFCEAS (WO 03031949) IR Laser technology for enhanced specificity, selectivity, accuracy and stability (no instrumental response drift.)
- The ProCeas® HF uses a patented low-pressure sampling system (W0 2010058107) enabling low-cost installation thank to non-heated lines* and reduced maintenance.
- The ProCeas® HF is a complete, reliable, robust, low-cost and easy-to-use solution for the low level HF analysis ambient air.

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

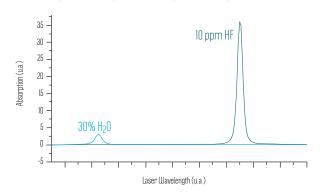
	SAMPLING	
	Flow Rate:	3-9 L/h
	Max. Temp. :	600°C
	Max. Humidity:	H ₂ O(g) < 65% vol Standard H ₂ O(g) > 65% vol Study Required
	Pressure:	l atm. ± 100 mbar @ sampling point
	Sampling Line:	Ambient Temp. > 10°C et H ₂ O <65% vol. > Simple polytube (no heating)
		Ambient Temp. < 10°C et H ₂ O >65% vol. > 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 REQUIREMEN	TS
	Operating Temp.:	I5-35°C - Standard I0-40°C - Optional
	Power supply:	200 W - 110-220VAC - 50-60Hz
	Compressed Air:	1-6 bar (oil free). Not provided.

I / O'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			
HF	10ppm	1%	lppb	10ppm			
Response Time <2 secon		ds.					
Zero Drift:	none						
			a P				

^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

