LaserGas[™] III Portable HF Analyzer





NEO Monitors LaserGas[™] is using Tunable Diode Laser Absorption Spectroscopy (TDLAS) i.e. a non-contact optical measurement method employing solid-state laser sources. The portable analyzer is compact, lightweight, and battery powered for HF measurement on the spot. With onboard pump and connections for Teflon tubing the target gas is continuously transferred into the internal measurement cell. The instrument´s low power design gives long operating time on each battery cycle.

Features	Applications	Customer benefits
 Most advanced LaserGas[™] technology available (3rd generation) Portable (low weight) Low power usage <10 Watt Sub ppm HF detection No interference from other gases Stable calibration No zero drift 	 The LaserGas[™] III Portable HF Analyzer is the solution for reliable detection of short-term HF concentrations, wherever diffuse emissions occur representing a risk to the work force. Focused applications are: Aluminium smelters: Worker protectioduring active work Aluminium smelters: Mapping plant emissions Refinery alkylation plants: Worker safety 	 Flexible unit designed for measurement on the spot Allows fast and reliable operation to measure sub ppm and several hundred ppm HF concentrations Regular maintenance not required No cross interference from other gases Short-term HF peaks are uncovered with the LaserGas[™] III portable Easy to carry Battery operated for several hours Internal storage of data

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Technical Data

Specifications Detection limit (HF)*:	50 ppb **	Safety Laser class: Class 1 acc IEC 60825-	Class 1 according to	Maintenance	Instrument check by Ethernet
Repeatability:	1% of range (gas & application spesific)		IEC 60825-1, eye safe	Filter change	Recommended every 3 months
Range:	0 - 500 ppm	Installation and Operation Gas inlet / outlet:	on 6 mm SMC one touch fittings (sories KOG)	Physical Dimensions:	110 mm x 120 mm x 250 mm (4.3″ x 4.7″x 9.8″
Storage	3MB	Sample gas flow:	3 l/min		
Environmental conditio Operating temperature: Storage temperature: Protection classification:	-20 ℃ to +55 ℃ -20 ℃ to +55 ℃ -20 ℃ to +55 ℃	Sample inlet pressure:	+/- 50 mbar G / 0.8 PSIG (higher pressures possible with different pump)	Weight (incl. battery): Display: Sample Cell:	2.3 kg (5 lbs) 2.7" colour LCD panel Teflon coated Aluminium
Outputs Analog output (3):	4 – 20 mA current loop (concentration and transmission)	Sample inlet temperature: Calibration:	Max 85 °C Check recommended	** NOTE: Detection limits are specified as the 95% confidence interval for 1 m optical path and gas temperature / pressure = 25 °C/ 1 BarA,	
Digital output:	10/100 Base T Ethernet (Modus TCP), RS-485		every 12 moths	measured in N ₂ .	
Ratings Power consumption: 4 – 20 mA output:	Max. 10 W 500 Ohm max. load impedance, not isolated				
Battery:	Lithium Ion Battery (14.4 V, 5 A, approx. 10 hours usage time per charge)				

* NEO Monitors reserve the right to change specifications without prior notice

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