

LASERTRACE-NH₃

TRACE AMMONIA GAS ANALYZER

SPECIFICATIONS

A. GAS SAMPLE CONDITIONS

Sample Inlet Pressure:	0-125 (psig)
Flow Rate:	up to 2 slpm
Sample Gases:	Most Inert, Passive and Toxic Gases
Sample Line Temperature:	Up to 60°C

B. GAS FLOW RATE

Materials of Construction:	316L stainless steel (optional Hastelloy•)
Wetted Components:	10 Ra surface finish
Gas Connection:	Sample inlets & outlets - 1/4• VCR
Leak Tested to:	<2 X 10 ⁻⁸ mbar , l/sec

C. ELECTRICAL

Alarm Indicators:	User programmable alarm set points
Power Requirements:	90-240 VAC 50/60 Hz
Power Consumption:	200 Watts max.
Output Signals:	
• Recorder	0-5VDC, Isolated 4-20 or 0-20 mA per sensor
• Alarm	Form-C relay per sensor
User Interface:	10.4f color VGA display with touch screen, PS2 Mouse and Keyboard, 10BaseT Ethernet, USB, RS-232

D. DIMENSIONS

Mounting:	
• Sensor Module	7f x 4.75f x 27f (Stand Alone configuration) 7f x 19f x 27f (Rack Mount Configuration; 4 sensors per rack mount enclosure)
• Electronics Module	14f x 19f x 14f
Weight:	
• Sensor Module:	38lbs per sensor
• Electronics Module	32lbs.

PERFORMANCE

Lowest Detection Limit:	1 ppb
Sensitivity:	0.5 ppb
Accuracy (greater of):	4% of reading or • 1ppb
Speed of Response (typical):	95% of Value in <1minute
Operating Range:	0-8 ppm
Environmental Conditions:	10• C-40,,C
Storage Temperature:	-10• C-50,,C

TECHNOLOGY

Approvals:	CE: LVD & EMC approved
Method:	Cavity Ring-Down Spectroscopy
Patents:	U.S. Patent # 5,528,040 Other Patents Pending

