Tigeroptics | 21ST CENTURY SPECTROSCOPY

Tiger-*i* 3000

Trace Ammonia Analyzer for Ambient Molecular Contaminants

Designed for ambient molecular contaminants, the compact Tiger-i 3000 offers:

- Accuracy traceable to the world's major national reference labs
- Specificity – no ozone or other interference
- Sub-ppb detection capability
- Freedom from the need for zero and span calibrations
- No periodic sensor replacement/maintenance
- Great sensitivity
- Wide dynamic range

PERFORMANCE

Lowest Detection Limit*:	*5 ppb in Air/1.5 ppb LDL in N_2*
Sensitivity:	*2.5ppb / 0.75 ppb*
Accuracy (greater of):	*4% reading or ± 2.5/0.75 ppb*
Speed of Response (typical):	*90% response < 2 minutes*
Operating Range:	*0-40 ppm NH_3*
Environmental Conditions:	*10°C-40°C*
Storage Temperature:	*-10°C-50°C*

** Based on 24-hour peak-to-peak variation*

MATERIALS OF CONSTRUCTION

Materials of Construction:	*316L stainless steel (optional Hastelloy®)*
Wetted Components:	*10 Ra surface finish*
Gas Connection:	*1/4" M VCR Inlet & Outlet*
Leak Tested to:	*<2 X 10^{-8} mbar • l /sec*

ELECTRICAL

Alarm Indicators:	*User programmable set points*
Power Requirements:	*90-240 VAC, 50/60 Hz*
Power Consumption:	*200 Watts max.*
Output Signals:	
• ***Recorder***	*0-5VDC, Isolated 4-20*
• ***Alarm***	*Form-C relay*
Communications:	*RS-232, Wireless (optional)*
User Interface:	*5.6" LCD touch screen, 10BaseT Ethernet, RS-232/422*

DIMENSIONS

Mounting (H x W x D):	*8.75" x 8.5" x 27.14" (22.2 cm x 21.6 x 68.6)*
Weight:	*36 pounds (15kg)*

GAS SAMPLE CONDITIONS*

Sample Inlet Pressure:	*0 - 15 psig*
Sample Outlet Pressure:	*Vacuum Source Req'd*
Flow Rate:	*~1 slpm (N_2)*
Sample Gas:	*Ambient (cleanroom)*
Sample Line Temperature:	*Up to 60°C*

**Vacuum source required*

TECHNOLOGY

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

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