

Tiger-*i* 2000 NH₃

Trace Ammonia Analyzer for Ambient Molecular Contaminants



Designed for ambient molecular contaminants, the compact Tiger-*i* 2000 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 span calibrations
- No periodic sensor replacement/maintenance
- Great sensitivity
- Wide dynamic range

PERFORMANCE

Lowest Detection Limit:	8 ppb in Air
Sensitivity:	4 ppb
Accuracy (greater of):	4% reading or ± 8 ppb
Speed of Response (typical):	95% response < 3 minutes
Operating Range:	0-40 ppm NH ₃
Environmental Conditions:	10°C-40°C
Storage Temperature:	-10°C-50°C

DIMENSIONS

Mounting (H x W x D):	8.75" x 8.5" x 22.5" (22.2 cm x 21.6 x 57.2)
Weight:	33 pounds (15 kg)

MATERIALS OF CONSTRUCTION

Materials of Construction:	316L stainless steel, Teflon®
Wetted Components:	10 Ra surface finish
Gas Connection:	1/4" M VCR Inlet & Outlet
Leak Tested to:	<2 X 10 ⁻⁸ mbar • l /sec

GAS SAMPLE CONDITIONS*

Sample Inlet Pressure:	0 - 15 psig
Sample Outlet Pressure:	Vacuum Source Req'd
Flow Rate:	0.4 slpm (N ₂)
Sample Gas:	Ambient (cleanroom)
Sample Line Temperature:	Up to 60°C
*Vacuum source required	

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

TECHNOLOGY

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