NO_x Detector

Vacuum Chemiluminescence

OEM Product

Affordable

Sensitive and stable

0.5 PPB LDL

Affordable to purchase, operate and maintain

Peltier cooled, tried and tested, PMT detector The vacuum chemiluminescence method, where NO is mixed with O_3 to produce light, has long been recognized as the best practical analytical solution for NO_x detection in a wide variety of applications

5000 NO_x Detector

Sensitive, compact and robust

analytical sciences

The model 5000 NO_x Detector is designed as a drop in module for systems builders and OEM manufacturers. It offers the performance of top line NO_x analyzers, but at a fraction of the cost.

We've done this by stripping out all of the "bells and whistles" of little value to systems and OEM manufacturers, but providing a really straightforward signal and power interface that's easy to engineer in.

And we've sacrificed nothing in the "engine" of a hi-spec chemiluminescent detector:

- Vacuum chemiluminescence
- Heated vacuum reaction chamber for superb sensitivity and condensation prevention
- All Swagelok® fittings
- Stainless steel, Teflon® and Viton® wetted parts
- Robust corona discharge ozone generator with good moisture tolerance
- Hamamatsu Photo multiplier tube (PMT)
- Peltier Cooled PMT
- TC temperature outputs for PMT and reaction chamber
- Vacuum interlocked ozone generator
- Remote mounting vacuum pump

Options available:

- NO_2 to NO reduction furnace
- Ozone decomposer

Measurement Ranges	0-200ppm
Range adjustment	Infinite (thru 0-5V command signal)
Output	0-20ma, 4-20ma, 0-5V, 0-10V
Noise	<0.2 ppb
Lower Detection Limit	<0.4 ppb
Linearity	±1% of full scale
Precision	0.4 ppb or 1 % of reading (the greater)
Zero Drift	24 hours: < 0.5 ppb 7 days: < 1ppb
Span Drift:	24 hours < 0.5% of scale 7 days: < 1.0%
Response time	10 seconds to 95% Scale
Power	Instrument Power: 12 VDC, 4.0Amps Heated reaction chamber: 110-250VAC 50-60 Hz 60VA
Dimensions	Height: 135mm Width: 255mm Length: 315mm
Weight	8.2Kg
Sample Connections	1/8" OD compression fittings
Sample Flow Rate	to around 300 ml/min
Ambient operating range	8° to 36°c

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