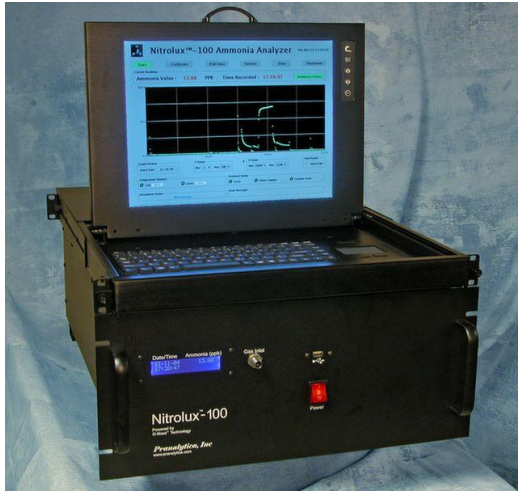


Nitrolux®-100 基于量子级联激光器(中红外激光器)的氨气检测仪
灵敏度高达 100 ppt



几乎所有的气体分子，在中红外波段都有很强的吸收峰，中红外检测的灵敏度通常比近红外光谱检测高一到两个数量级，Nitrolux 气体分析仪采用量子级联激光器（中红外激光器）作为检测光源，结合 Pranalytica 公司独特的软件算法，灵敏度高达 100 ppt ，比起其他产品具有更高的灵敏度。

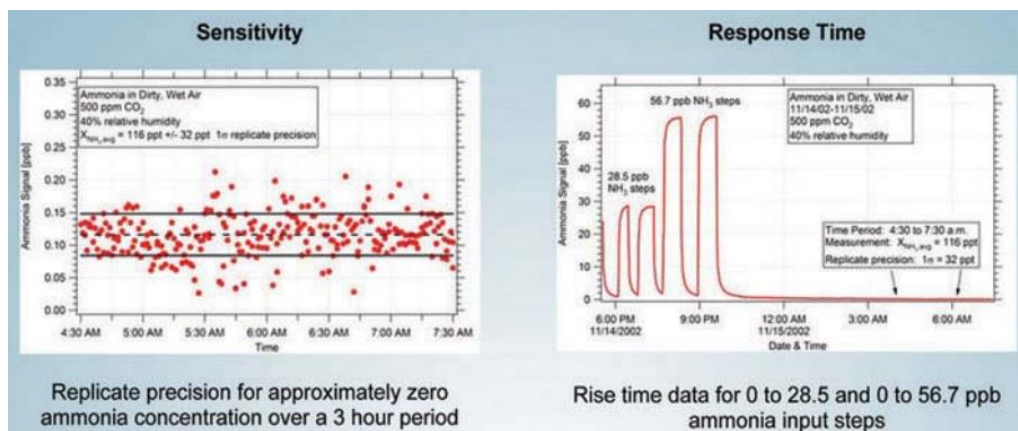
Nitrolux®-100 采用可调谐量子级联激光器为光源，氨气测量灵敏度为 100ppt。
同系列产品 Nitrolux®-200 和 Nitrolux®-1000, 灵敏度分别为 200ppt 和 1000 ppt 。

应用举例

Nitrolux®-100 被广泛应用于半导体工厂洁净室，。通过本品对亚 ppb 级氨气的监控，可以有效预防集成电路生产过程中 ppb 级别的氨气造成的不良影响。

高浓度的氨气有害人体健康，氨气是大气中唯一的碱性气体，是 PM2.5 的前体物，故而氨气检测仪被广泛用于大气监控。

仪器典型数据



Aunion Tech Co.,Ltd

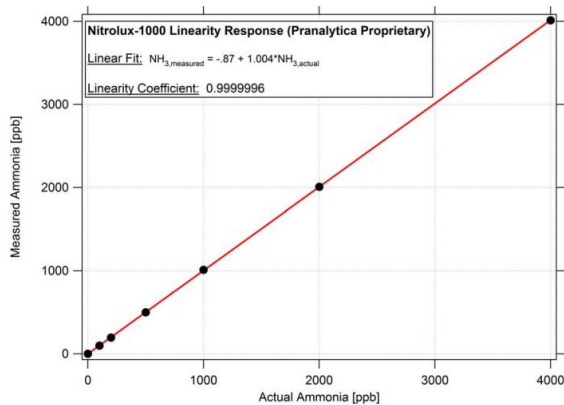
Room 2802, F Building, Everbright Convention and Exhibition Center, No. 86 Caobao Road, Shanghai 200235, China

Tel: +86-21-51083793

Fax:+86-21-34241962

E-Mail: info@auniontech.com

Website: www.auniontech.com



系统参数

Nitrolux®-100

- Number of cells One
- Minimum detectivity 100 parts-per-trillion (ppt)
- Measurement cycle Continuous
- Measurement process Direct measurement ammonia, no preconcentration or conversion required
- Measurement time 36 seconds (optional 10 seconds)
- Analyzer operation Autonomous (no operator attention necessary)
- Response time 2 measurement cycles (0-90% change)
- Selectivity No interference from other ammonium containing compounds, hydrocarbons, hydrogen sulfide, sulfur dioxide, hydrogen fluoride, hydrogen chloride, water and NOX
- Linearity $\pm 10\%$ of full scale
- Accuracy ± 100 parts-per-trillion or $\pm 10\%$ of the reading (whichever is greater)
- Precision ± 100 parts-per-trillion or $\pm 10\%$ of the reading which ever is larger (relative accuracy)
- Zero drift ± 100 parts-per-trillion per week (non-cumulative)
- Span drift $\pm 10\%$ of full scale per month (non-cumulative)
- Control processor Pentium class microcomputer embedded in the Nitrolux
- Operating system LINUX based to assure high reliability

Data storage

- Embedded in the Nitrolux
- All completely solid state memory for crash-proof reliability
- User data storage capacity for > 1 year (Option EDS provides over 4 years of continuous data storage capability)
- Data display Full color graphical display showing ammonia as a function of time and location (GPS option GP1) and provides the capability for programming alarms settings, etc

Data output:

- RS 232 serial data
- 0-10V & 5-20 mA analog (option OUT)
- USB key
- Internet connection
- Wireless connectivity (option WS)

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- Gas handling Internal vacuum pump with gas flow of ~1.6 lpm
- Gas inlet temperature 0 to 30 C
- Special gas needs None
- Routine calibration Not required at the quoted sensitivity; recommended calibration every six months (using the optional calibration system CAL2)
- Consumables Particulate filter replacement every 2,500 hours
- Gas fittings PFA Teflon
- Operating environment 10 to 30 C; 0-95% RH (non-condensing); requires no special cooling
- Electrical 110-230V AC, 60 Hz

Power consumption:

- Sensor: <300W
- Display: <100W
- Physical 19"W X 24" D X 10" H (rack mount ready)

Weight

- Sensor 65 lbs
- Display 22 lbs

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