

Model

2120XL

Trace Nitrogen Analyzer
Plasma Ionization Technology

FEATURES:

- For use in Argon or Helium background
- 5 ppb detectable limit
- Maintenance-free
- No switching valves, column or carrier gas required
- Integral digital sample flow control
- Microprocessor-based electronics with menu-driven functionality and diagnostics
- Large, luminescent LCD display and 2x20 vacuum fluorescent display to show menu functions and parameters
- Profibus DP ready with Teledyne Valve Box



MODEL 2120XL - Trace Nitrogen Analyzer

In many argon or helium gas supply systems, the detection of trace nitrogen (N_2) is essential in determining system integrity. Teledyne Analytical Instruments Model 2120XL is the new standard in this critical measurement. It provides continuous and accurate nitrogen analysis using field-proven emission spectroscopic technology in a space-saving 19" rack-mount 3U package.

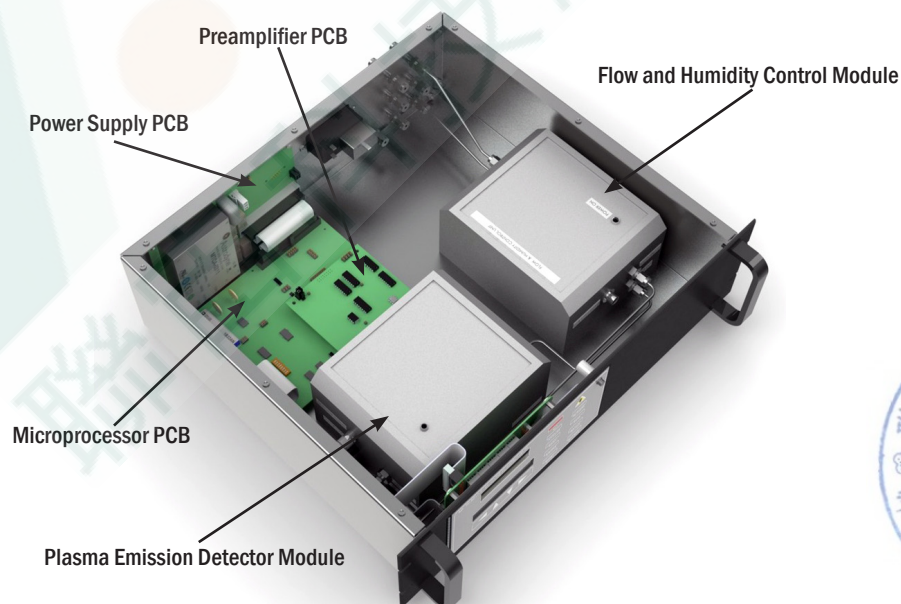
The 2120XL's unique design raises the bar for reliability available on the market. The 2120XL uses a menu-adjustable, digitally controlled sample flow for all applications. During operations, the 2120XL allows for a wide range of pressures without affecting readings with a low overall sample flow requirement. Its plasma emission detector design is based on a unique Duty Cycle Controlled System which dramatically reduces contamination and coating inside the plasma cell, offering a more efficient, reliable, and accurate analyzer than any other system available.

Its non-consuming sensing technology requires no regular maintenance or replacement intervals, providing ultra-low detectability without the maintenance overhead of similar high-performance systems. Even when maintenance is required, the 2120XL offers ease of access to all internal components which minimizes down time. A new design and specialized components also minimizes necessary volume for purge-down time.

The 2120XL operates with microprocessor-based electronics utilizing menu-driven functionality. Users are provided a large, luminescent LCD display and 2x20 vacuum fluorescent displays to show all menu functions and parameters. A preamplifier with multiple stage gains supports a wide dynamic operating range. The 2120XL also offers a full diagnostics suite including a display of raw millivolt signal for troubleshooting.

APPLICATIONS:

- Air separation unit
- Cryogenic truck loading station
- Specialty gas laboratories
- Process control
- Argon purification plant
- Steel Industries
- Chemical plants
- Welding gas control
- Helium liquefaction plants
- Gas management system
- Semiconductor manufacturing
- Quality control for truck fills and gas cylinders



MODEL 2120XL - Trace Nitrogen Analyzer

ELECTRONICS/INTERFACE:

- Microprocessor based electronics
- User-settable ranges
- 4-20mA isolated analog output
- Self-diagnostics with Form-C system alarm contact
- Two (2) fully-programmable concentration alarms with Form-C contact
- Range Identification: Form-A contacts and 0-1 VDC
- RS-232 bi-directional serial output
- Digitally-settable flow rate
- Optional integral auto-calibration valve manifold
- Profibus DP communications option when used in conjunction with TAI Valve Box

OPTIONAL EQUIPMENT:

- Moisture trap (TAI part number S1766)
- Scrubber for purification of zero gas (TAI part number S1748)

SPECIFICATIONS:

Range	0-1, 0-10, 0-100 ppm, user-settable, fixed or auto-ranging. Higher ranges optional
Resolution	PPM Readout: 0.01 ppm below 10.0 ppm, 0.1 ppm at or above 10.0 ppm PPB Readout: 0.1 ppb
Accuracy	1% of full scale
Drift	1% of full scale
Gas Connections	1/8 inch tube fitting
Calibration Gas	Zero: purified argon/helium” and “Span: PPM nitrogen in argon/helium
Sample Flow	20-200 sccm, programmable
Operating Pressure	4-30 psig
Operating Temperature	10-35°C (50-95°F)
Power	110-240 VAC 50/60 Hz, 60 watts max
Dimensions (HxWxD)	5.22 x 19.00 x 18.40 in (132.6 x 482.6 x 467.4 mm) (3U form factor)
Weight	Approximately 35 pounds





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