

Line 8000

AZ8000

New online trace Nitrogen in Argon/Helium analyzer

The AZ8000 is the new standard for trace Nitrogen. Its unique design brings reliability and accuracy needed for such measurement. Its own Plasma Emission Detector System extends the lifetime of the cell. This Duty Cycle Controlled System has the property to decrease contamination and coating inside the plasma cell giving a more efficient, reliable and accurate analyzer.



FEATURES

- Unique Plasma Emission Detector design based on a Duty Cycle Controlled System
- Bootloader integrated for software update via Ethernet
- Large scale measurement
- 4-20 mA output as standard
- Range Identification Relay
- Maintenance free
- LAN/Web control
- Micro-valve for very low dead volume and fast purging time
- Low sample consumption
- 3U cabinet

APPLICATIONS

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

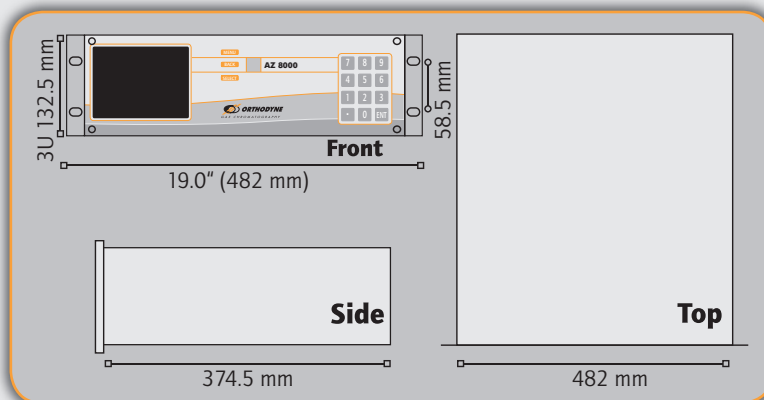
SPECIFICATIONS AZ8000

Detector type	Plasma Emission Detector design based on a Duty Cycle Controlled System	
Range	0 – 1 ppm, resolution to 10 ppb 0 – 10 ppm, resolution to 0.1 ppm 0 – 100 ppm, resolution to 1 ppm Other range possible up to 10000 ppm	
Repeatability	< 1 % full scale	
Accuracy	Better than ± 1% full scale	
Standard features	<ul style="list-style-type: none"> • Manual or autoranging (user selectable) • Microprocessor controlled • 5.6" TFT intelligent LCD module with Touch Screen • Self diagnosis system with auto-resolve alarm • LAN/Web control • 4-20 mA isolated output 	<ul style="list-style-type: none"> • Alarm Historic • Safe calibration procedure to avoid any bad calibration • Digital outputs for remote monitoring: (all dry relay contacts) <ul style="list-style-type: none"> - System status (1 output) - Range in use (3 output) - Calibration in use (1 output)
Options	<ul style="list-style-type: none"> • Internal sampling system for zero, span and sample with remote capabilities 	<ul style="list-style-type: none"> • Serial port: RS-232/422/485/ Profibus • 2 alarm outputs (user programmable set point)
Gas connections	Sample: 1/8" compressing fittings	
Vent	1/8" compressing fitting	
Calibration gas	Zero: PUR8000 purified gas (Getter)	
Span	8.0 to 9.5 ppm N ₂ in Argon	
Sample flow requirements	15 to 200 sccm	
Flow accuracy	0 to 200 sccm ± 1% full scale	
Max operating pressure	30 PSIG (207 kPAG)	
Min operating pressure	4 PSIG (28 kPAG) optional 1 PSIG (7 kPAG)	
Operating temperature	10 °C to 45 °C	
Supply	115 VAC, 50 – 60 Hz or 220 VAC, 50 – 60 Hz	
Power consumption	Maximum 40 watts	
Drift	< ± 1% over 24 hours	
Weight	29 lbs (13 kg)	

AZ8000 ORDERING INFORMATION

-XXX	-X	-X	-XXX
Operating Voltage	A: Alarm option	S: integrated sampling system	Serial communication
120 : 120 volts		S1 : 1 sample inlet	RS2: RS-232
220: 220 volts		S2 : 2 sample inlets	RS4: RS-485
		SR1: 1 sample inlet with remote control	PFB: Profibus
		SR2: 2 sample inlets with remote control	

Dimensions



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