

NITRITE ANALYZER

N2 2000 SERIES



FEATURES & BENEFITS

- Affordable real-time nitrite (NO_2) monitoring
- Multiple wavelength analyzer with LED technology
- Operator friendly, low maintenance design
- Built-in controller
- Quick and simple optical measurements
- Reagent free operation

WATER QUALITY
MONITORING
SOLUTIONS

OVERVIEW

Real Tech's Nitrite analyzer provides rapid real-time measurement of nitrite (NO_2) in water. Continuous nitrite monitoring can bring significant value to many applications especially for boilers and chillers. In these applications, real-time monitoring of nitrite, which is commonly used as a corrosion inhibitor, can optimize service intervals to align with a drop in nitrite levels. This saves time and ensures that corrosion and costly repairs are prevented, improving efficiency and increasing the longevity of the asset being managed.

MEASUREMENT PRINCIPLE

Real Tech's Nitrite analyzer utilizes light at various wavelengths for measurement. Many compounds absorb light in the UV-VIS spectrum including nitrite. How much the compounds absorb is directly proportional to their concentration, and compounds that may interfere with nitrite measurement are compensated for. Benefiting from Real Tech's innovative LED technology, accurate and stable measurements are obtained with minimal maintenance or operator intervention.



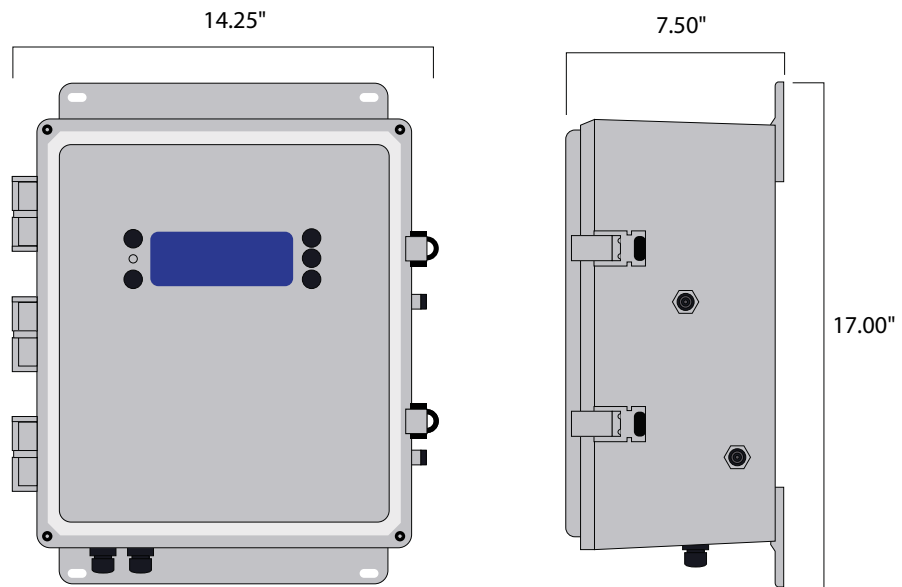
NITRITE ANALYZER SPECIFICATIONS

CHARACTERISTIC	TECHNICAL DATA		
	MODEL	N22020	N22040
Path Length	2 mm	4 mm	8 mm
Parameters	Nitrite (NO ₂)		
Range	Depends on model selected. Refer to range chart.		
Accuracy	± 1% FS		
Units	mg/L, ppm		
Sampling Time	30 seconds		
Calibration	Factory calibrated. Can be field adjusted if needed.		
Self-Diagnostics	Detection and diagnosis of internal system fault		
Operator Interface	Five push buttons to control a comprehensive hierarchical menu system		
Display	4 line x 20 character back-lit LCD with LED alarm		
Alarms	Dry contact terminals allow for operator configurable alarms for: high and low set points, low lamp output, leak detected, system fault, etc.		
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system		
Outputs	Self-powered 4-20 mA, RS232 serial for PC		
Wavelength	UV and visible light wavelengths		
Light Source	LED		
Flow Rate	300-1000 mL/min		
Pressure Rating	20 PSI maximum		
Fluid Connections	1/4" OD tube push-in fittings		
Electrical	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)		
Storage Temp.	-20 to 60°C (-4 to 140°F)		
Operating Temp.	0 to 45°C (32 to 113°F)		
Max Water Temp.	70°C (158°F)		
Enclosure	NEMA 4X, wall mountable		
Weight	22 lb		
Dimensions	17"H x 14.25"W x 7.5"D		
Warranty	2-year limited warranty (Extended care packages available)		
Analyzer Upgrades	High Temp. Upgrade I, Cell Modem		

* Technical Specifications are subject to change without notice.

DIMENSIONS

The nitrite analyzer is a bypass cabinet instrument installed directly on a wall, railing or system backboard. Sample is supplied to the analyzer from either a pressurized source or from an open-channel using an accessory pumping system.



ANALYZER MODELS & RANGE

Includes built-in controller, nitrite sensor, flow cell, dehumidifier and standard power supply. Additional accessories sold separately.

MODEL#	PATH LENGTH	NO ₂ -N mg/L	NO ₂ mg/L
N22020	2 mm	15 - 3000	50 - 10,000
N22040	4 mm	7.5 - 1500	25 - 5000
N22080	8 mm	3.75 - 750	12.5 - 2500

* Stated ranges are based on testing in deionized water. Site specific conditions, such as interfering substances in the water, may limit the measuring range and accuracy. Please contact Real Tech to confirm model selection.

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
UVT-138181	High Temp. Upgrade I	Upgrade for 2000 series analyzers to sustain up to 70-95°C (158-203°F) water temperature
S-214101	Cell Modem	Connectivity via cell connection for any Real Tech Analyzer
LAI-204112	Liquid Ai Dashboard	Annual Liquid Ai Dashboard remote monitoring service and data

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