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

INDUSTRIAL PROCESS WATER

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.

REALTECH INC.

NITRITE ANALYZER SPECIFICATIONS

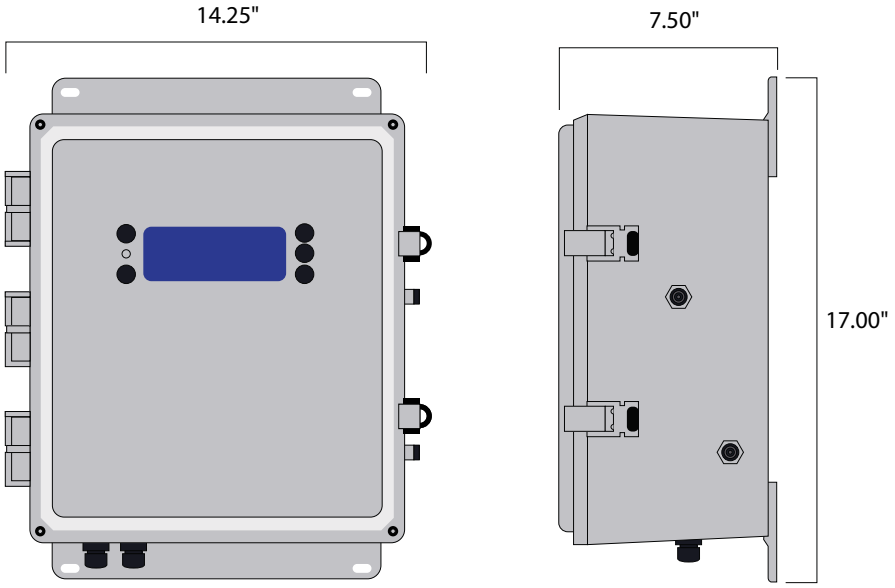
CHARACTERISTIC	TECHNICAL DATA
Path Length	2, 4, 8 mm
Parameters	Nitrite (NO_2)
Range	Depends on model selected. Refer to range chart.
Accuracy	± 1% FS
Units	mg/L, ppm
Sampling Time	30 seconds
Calibration	Factory calibrated. Can be field adjusted if needed.
Self-Diagnostics	Detection and diagnosis of 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
Wetted Materials	Kynar, Polyethylene, Quartz, SS 316L, Viton
Electrical	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)
Ambient Temp.	0 to 45°C (32 to 113°F)
Water Temp.	0 to 90°C (32 to 194°F) at 21°C (69.8°F) Ambient temperature
Storage Temp.	-20 to 60°C (-4 to 140°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	Cell Modem

* Technical Specifications are subject to change without notice.

* Water temperature range based on material compatibility only. Contact Real Tech to verify application.

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
S-214101	Cell Modem	Connectivity via cell connection for any Real Tech Analyzer
LAI-211003	Liquid Ai Dashboard	Annual Liquid Ai Dashboard remote monitoring service and data

Real Tech Inc.
1150 Champlain Court,
Whitby, Ontario L1N 6K9 Canada
TF: 1.877.779.2888 T: 1.905.665.6888
info@realtechwater.com