

3046 AMMONIA ANALYZER

Waltron's 3046 Ammonia Analyzer is specifically designed for the online analysis of ammonia as used for pH control in high purity process water.

The 3046 is a member of the Waltron 3040 Series of colorimetric analyzers. The 3040 Series is trusted world wide to deliver accurate and reliable readings with minimal maintenance and low total cost of ownership. Common applications include boiler cycle water and condensate return systems.

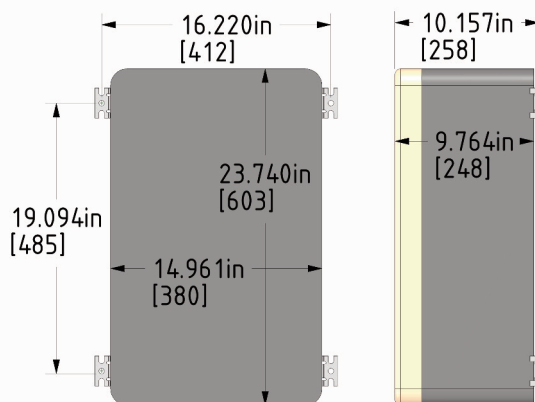
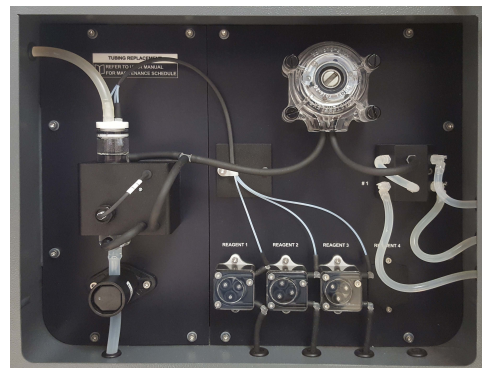
FEATURES

- Accurate and wide-range analysis**
- Multi-stream available**
- Fast loop reservoir**
- Adjustable cycle and calibration frequency**
- Automatic calibration and validation (QA/QC)**
- Compact design**
- Color touchscreen display**
- Grab sample capability**
- Internal datalogger**
- Low reagent level alarm**
- No compressed air required**
- Automatic start/stop based on sample flow detection**
- Minimal analyzer maintenance**
- Automatic chemical cleaning integrated**

See reverse side for specifications.



Wet Section



3046 AMMONIA ANALYZER | GENERAL SPECIFICATIONS

PERFORMANCE

Range	0-1000ppb
Accuracy	+/- 5 ppb or +/- 2% of reading, whichever is greater
Reproducibility	+/- 5 ppb or +/- 2% of reading, whichever is greater
Analysis Time	15 min, batch process
Sampling Frequency (Cycle Time)	One reading every 20 mins, adjustable
Required Maintenance	Monthly replenish reagents; Quarterly replace tubing
Reagent Consumption (approximate)	3 reagents, 2.5L each per month, optional 4th reagent as cleaning solution
Sensor Classification	Colorimetric with glass flowcell and LED source
Application	Steam cycle water, cooling water, process water
Ambient Temperature Range	10-45°C analyzer (50-113°F)
Atmospheric Pressure Range	No Limits
Humidity	Up to 90% not condensable
Unit Dimensions	Height=23.6"(60 cm), Width=15"(38 cm), Depth=8.3"(21 cm)
Positioning and Installation Details	Wall mounting, bench supported, or panel mounting (optional)
Weight	17 kg (37.5 lbs.)
Degree of Protection	IP55 (NEMA 4): Wet section, IP65 (NEMA 4x): Electronics
Alarms	2 or 4 configurable alarm relays (Result, loss of sample, fault)
Power Supply	110-220Vac, 50-60 Hz 80 VA
Certification (on request)	Meets low voltage and low electromagnetic compatibility directives

SAMPLE DELIVERY OPERATING CONDITIONS

Temperature Range	5-55°C (41-131°F)
Inlet Sample	100-500 ml/min, atmospheric, flexible tubing O.D. 1/4"(6 mm)
Outlet Sample	Atmospheric, waste tubing O.D. 3/8"(9 mm)
PH	3-12
Sample Conditioning Requirements	Filtering between 10 and 60 micron, depending on the matrix, needed only to avoid clogging.
Materials in Contact with Sample	Glass, Silicone, Plexiglass, Stainless Steel AISI 316

SIGNAL OUTPUTS

Analog Outputs	4-20mA (galvanic isolator module available as option) or 0-5V
Serial I/O Options	RS232; RS485; MODBUS; PROFIBUS

OPERATIONAL CALIBRATION

Single/Multi Point	Multi-Point: zero and mid range
Matrix Corrections	Yes, sample blank correction
Manual/Automatic	Both

102-048-B.2



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