

## 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.

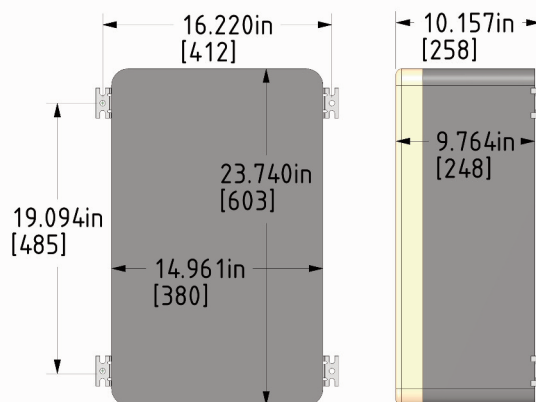
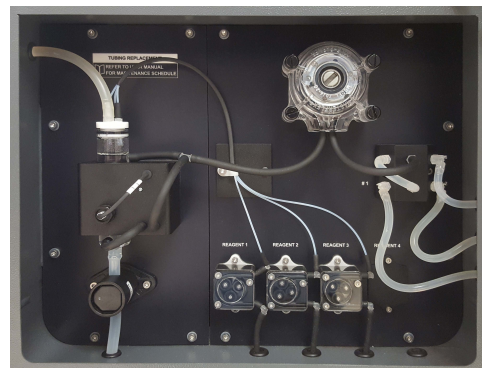
### FEATURES

- 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

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

### SAMPLE DELIVERY OPERATING CONDITIONS

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

### SIGNAL OUTPUTS

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

### OPERATIONAL CALIBRATION

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

102-048-B.2



EXPERTS IN  
WATER CHEMISTRY  
SINCE 1903

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