5500sc AMMONIA MONOCHLORAMINE ANALYZER

PROGNOSYS™ READY

Applications

Drinking Water



Chloramination made easy.

The Hach 5500sc Ammonia Monochloramine Analyzer provides all the information you need to eliminate nitrification events and taste and odor issues, giving you total confidence in your process. Oh—and it's easy, too.

Reliability without all the work

Only Hach can offer a low-maintenance solution with a pressurized reagent delivery system, easy-to-change reagent bottles, a simple troubleshooting menu, and PROGNOSYS predictive diagnostics. You'll always know if your analyzer is doing its job, so you can do yours.

Easy operation

It has never been easier to monitor your chloramination process online. You'll be up and running on day one with easy setup, and keep on running with at-a-glance status LEDs, a user friendly interface, color-coded reagent bottles and a simple solution for verifying your results with grab samples.

Improved control of your chloramination process

Continuous online monitoring gives you a more accurate and complete picture of your chloramination process, allowing you to make data-driven decisions. With a dual colorimeter design, you'll get more results faster - keeping you one step ahead of nitrification.



Technical Data*

Range 0.01 to 2 ppm (as N) **Parameter** Total Ammonia. Monochloramine. and Free Ammonia 1 or 2 in programmable sequence

Number of sample

streams

 \pm 5 % or 0.01 ppm (as N) for **Accuracy**

sample temperature 5 to 40 °C (41 to 104 °F); ±10% or 0.02 ppm for sample temperature

40 to 50 °C (104 to 122 °F), whichever is greater

Repeatability 3 % or 0.01 ppm (as N), whichever is greater

Lower Limit of Detection (LOD)

Response Time Within 5 minutes

Reagent Consumption 1L of reagents every month

with 5 minute cycle time

0.01 ppm (as N)

Operating Temperature

Range

5 to 45 °C (41 to 113 °F)

Operating Humidity 5 to 95 % non-condensing **Sample Pressure** 2.5 to 87 psi (0.17 to 6.0 bar)

5 to 50 °C (41 to 122 °F) Sample Temperature Sample Flow Rate 100 to 1000 mL/minute

Grab Sample Grab Sample In and Grab Sample

Out capability

Mounting Wall, panel, or table Inlet 6mm OD push-to-connect fitting

for plastic tubing

Outlet 11mm (7/16 in.) ID slip-on fitting Output

Four 0/4-20 mA Outputs, load impedance 600 ohm maximum

Communication 4-20mA Output, Optional:

Modbus RS485, Profibus DP

804 mm x 452 mm x 360 mm

with external controller

Dimensions (H x W X D)

Enclosure Rating NEMA 4X/IP56

Certifications CE (EN 61326-1: 2006;

EN 61010-1: 2010;

EN 60529: 1991, +A1:2000

cETLus (UL 61010-1:2012:

NEMA 250:2003:

CSA C22.2 No 61010-1:2012)

Australian RCM Marking

Weight 20.5 kg (45.2 lb) without reagents

and standards, 30 kg (66.2 lb) with reagents, standards and cleaning

solution

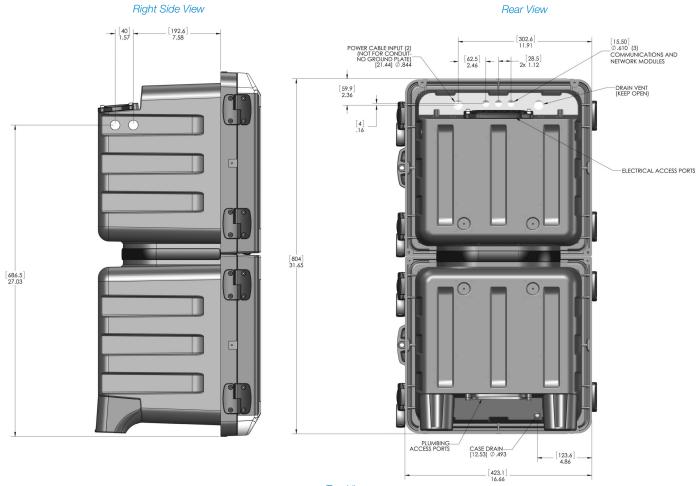
Warranty 1 year

*Subject to change without notice.

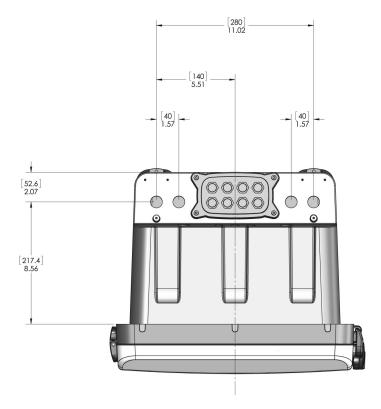
Principle of Operation

The analyzer measures total ammonia and monochloramine in drinking water and determines free ammonia concentration. The chemical analysis uses a modified phenate method to measure monochloramine values by colorimetry. An excess of hypochlorite at the correct pH generates total ammonia values measured by colorimetry. From these measurements, the analyzer calculates the free ammonia values for each measurement.

Dimensions



Top View



Order Information

Instruments

5500.AMC.1.KTO 5500sc Ammonia Monochloramine Analyzer, 1 Channel 5500.AMC.2.KTO 5500sc Ammonia Monochloramine Analyzer, 2 Channel

5500.AMC.3.KTO 5500sc Ammonia Monochloramine Analyzer,

1 Channel with External Filter

5500.AMC.4.KTO 5500sc Ammonia Monochloramine Analyzer,

2 Channel with External Filter

Reagents

25233000 5500sc Ammonia Monochloramine Analyzer Reagent Set

25234000
25235000
5500sc Ammonia Monochloramine Reagent 1, 1L
25236000
5500sc Ammonia Monochloramine Reagent 2, 1L
25236000
5500sc Ammonia Monochloramine Reagent 3, 1L
25237000
5500sc Ammonia Monochloramine Standard 1

(0 ppm NH₃), 2L

25238000 5500sc Ammonia Monochloramine Standard 2

(2 ppm NH₃), 2L

25239000 5500sc Ammonia Monochloramine Acidic

Surfactant Wash, 2L

Accessories

9179700 Power cord, North American

9560501 5500sc Ammonia Monochloramine Maintenance Kit,

1 Channel

9560502 5500sc Ammonia Monochloramine Maintenance Kit,

2 Channel

25224000 Colorimeter Cleaning Kit for 5500sc Ammonia

Monochloramine Analyzer

6792500 5500sc Modbus Module Kit

25277000 PROGNOSYS License for the 5500sc Ammonia

Monochloramine Analyzer

Service Plan Options

WRTUPG5500sc-AMC 5500sc Ammonia Monochloramine Analyzer, 1 channel

WarrantyPlus™ Instrument Protection and Service







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