

5500 sc AMMONIA MONOCHLORAMINE ANALYSER

Applications
• Drinking Water



Chloramination made easy.

The HACH LANGE 5500 sc Ammonia Monochloramine Analyser 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 LANGE can offer a low-maintenance solution with a pressurised reagent delivery system, easy-to-change reagent bottles, a simple troubleshooting menu, and PROGNOSYS predictive diagnostics. You'll always know if your analyser 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*

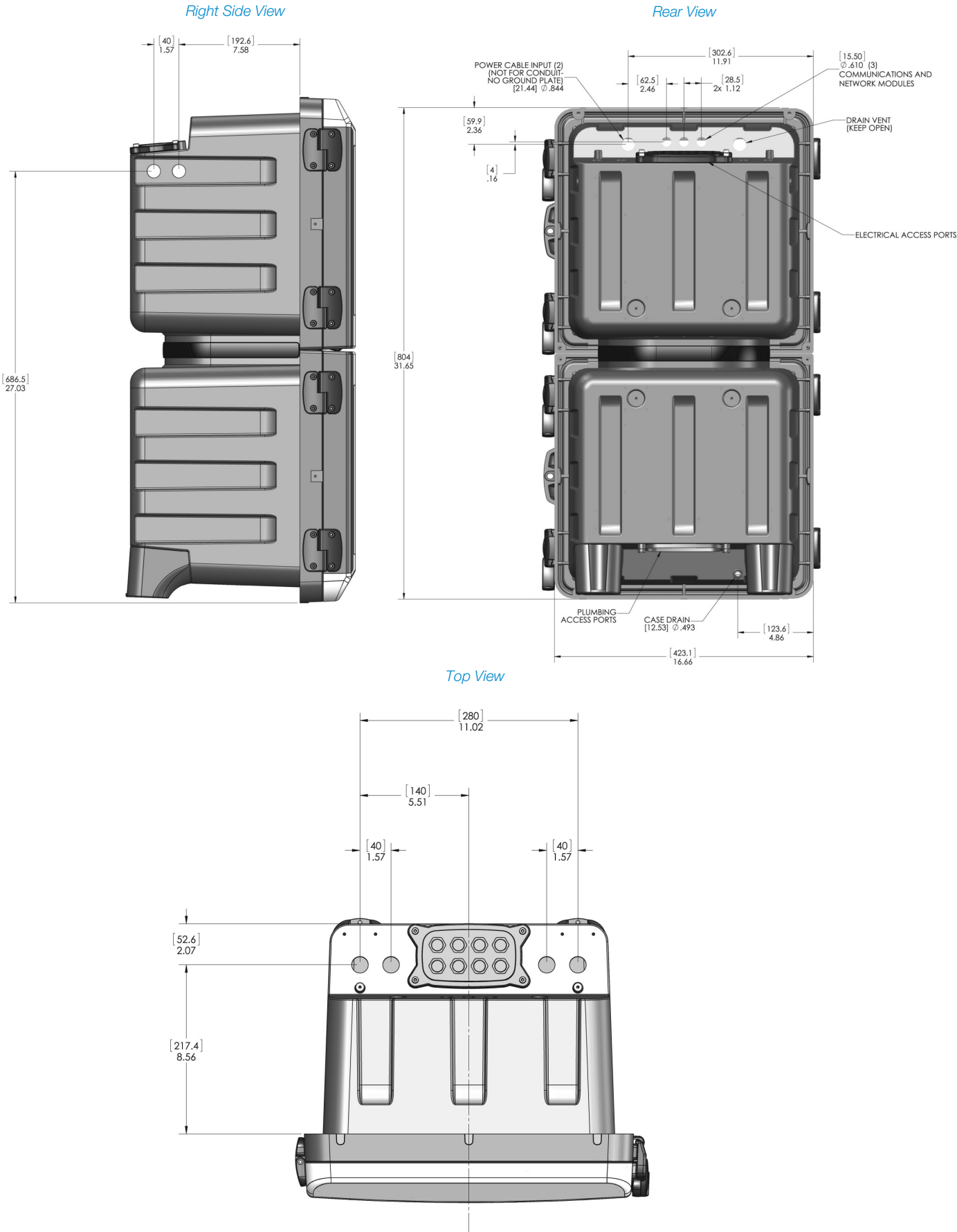
Measuring range	0.01 to 2 ppm (as N), 0.1 to 10.0 mg/L (as Cl ₂)	Inlet	6mm OD push-to-connect fitting for plastic tubing
Parameter	Total Ammonia, Monochloramine, and Free Ammonia	Outlet	11mm (7/16 in.) ID slip-on fitting
Number of sample streams	1 or 2 in programmable sequence	Output	Four 0/4-20 mA Outputs, load impedance 600 ohm maximum
Accuracy	± 5 % or 0.01 ppm (as N) for 5 to 40 °C (41 to 104 °F); ±10% or 0.02 ppm for 40 to 50 °C (104 to 122 °F), whichever is greater	Communication	Modbus RS485, Profibus DP (available with external controller), 4-20mA Output
Repeatability	3 % or 0.01 ppm (as N), whichever is greater	Dimensions Metric (H x W x D)	804 mm x 452 mm x 360 mm
Detection limit	0.01 ppm (as N)	Enclosure waterproof rating	NEMA 4X/IP56
Response time	Within 5 minutes	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)
Reagent consumption	1L of reagents every month with 5 minute cycle time		Australian RCM Marking
Operating temperature range	5 - 45 °C (41 to 122 °F)	Weight	20.5 kg (45.19 lb) without reagents and standards, 30 kg (66.14 lb) with reagents, standards and cleaning solution
Operating conditions	5 - 95 % non-condensing	Warranty	2 years
Sample pressure	2.5 - 87 psi (0.17 to 6.8 bar)		
Sample temperature	5 - 50 °C (41 to 122 °F)		
Flow rate	100 - 1000 mL/minute		
Grab sample	Grab Sample In and Grab Sample Out capability		
Mounting style	Wall, panel, or table		

*Subject to change without notice.

Principle of operation

The analyser 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 by colorimetry. Then, the analyser calculates the free ammonia values out of the difference between the measured parameters.

Dimensions



Order information

Instruments

- 5500.AMC.1.KTO** 5500 sc Ammonia Monochloramine Analyser, 1 Channel
- 5500.AMC.2.KTO** 5500 sc Ammonia Monochloramine Analyser, 2 Channel
- 5500.AMC.3.KTO** 5500 sc Ammonia Monochloramine Analyser,
1 Channel with External Filter
- 5500.AMC.4.KTO** 5500 sc Ammonia Monochloramine Analyser,
2 Channel with External Filter

Reagents

- 25233000** 5500 sc Ammonia Monochloramine Analyser Reagent Set
- 25234000** 5500 sc Ammonia Monochloramine Reagent 1, 1 L
- 25235000** 5500 sc Ammonia Monochloramine Reagent 2, 1 L
- 25236000** 5500 sc Ammonia Monochloramine Reagent 3, 1 L
- 25237000** 5500 sc Ammonia Monochloramine Standard 1 (0 ppm NH_3), 2 L
- 25238000** 5500 sc Ammonia Monochloramine Standard 1 (2 ppm NH_3), 2 L
- 25239000** 5500 sc Ammonia Monochloramine Acidic Surfactant Wash, 2 L

Accessories

- 9560501** Maintenance Kit, 1 Channel,
5500 sc Ammonia Monochloramine Analyser
- 9560502** Maintenance Kit, 2 Channel,
5500 sc Ammonia Monochloramine Analyser
- 25224000** Colorimeter Cleaning Kit for
5500 sc Ammonia Monochloramine Analyser
- 6792500** 5500 sc Modbus Module Kit

