

# HACH 5500sc PHOSPHATE ANALYZER

## Applications

- Power



## Lower Maintenance, Less Downtime

Delivering reliable results that save you critical time and effort.

### 90 Days of Continuous Run Time

Only two liters of reagent are required for the analyzer to perform unattended for up to 90 days; twice as long as the Series 5000.

### Save Time on Maintenance

The industry's only pressurized reagent delivery system eliminates the frequent maintenance associated with pumps.

### Avoid Downtime

Predictive diagnostic tools, including Hach's proprietary Prognosys technology, warning LEDs, and high-visibility notification screens let you avoid unplanned downtime.

### Clean, Fast and Easy Reagent Change

No more dripping reagents on the instrument, the floor, or your clothing while fumbling with tubes and straws. Simply match the color-coded cap to the sealed reagent bottle and twist gently.

### Verify Easily with Hach Lab Products So You Don't Waste Time Second-guessing

Grab Sample In and Grab Sample Out features allow quick analysis of a grab sample poured into the analyzer, and facilitate taking a sample out of the analyzer to verify in a lab test.



Be Right™

## Technical Data\*

|   |  |   |   |
|---|--|---|---|
| <b>Measuring Principle</b>                | Colorimetric   | <b>Number of Channels</b>               | 1, 2, 4; programmable sequence  |
| <b>Range</b>                              | LR model: 4-3000 µg/L as PO <sub>4</sub><br>[Detection range capable of<br>4 - 5000 µg/L as PO <sub>4</sub> ]<br><br>HR model: 200-50'000 µg/L<br>as PO <sub>4</sub> | <b>Grab Sample</b>                      | Grab Sample In and Grab Sample<br>Out capability  |
| <b>Accuracy</b>                           | LR model: ±4 µg/L or ±4% of<br>reading, whichever is greater;<br><br>HR model: ±500 µg/L or ±5% of<br>reading, whichever is greater                                  | <b>Mounting</b>                         | Wall, panel or table  |
| <b>Repeatability</b>                      | LR model: ±1%<br><br>HR model: ±500 µg/L or ±5% of<br>reading, whichever is greater  | <b>Fitting</b>                          | Sample line and sample bypass<br>drain: 6 mm (¼-in.)<br><br>Air purge inlet: 6 mm (¼-in.)   |
| <b>Lower Limit of<br/>Detection (LOD)</b> | LR model: 4 µg/L<br><br>HR model: 200 µg/L   | <b>Power Requirements<br/>(Voltage)</b> | 100 - 240 V AC, 24 V DC   |
| <b>Response Time</b>                      | Typically, 9.5 minutes at 25 °C<br>(77 °F); changes with temperature   | <b>Power Requirements<br/>(Hz)</b>      | 50/60 Hz  |
| <b>Reagent Consumption</b>                | 2 L of each reagent every 90 days<br>with 15 minute cycle time   | <b>Output</b>                           | 4 - 20 mA   |
| <b>Operating Temperature<br/>Range</b>    | 5 - 45 °C (41 - 113 °F)  | <b>Dimensions (H x W x D)</b>           | 804 mm x 452 mm x 360 mm  |
| <b>Operating Humidity</b>                 | 5 - 95 % RH non-condensing<br>(indoor use only)  | <b>Enclosure Rating</b>                 | NEMA 4X/IP56  |
| <b>Sample Pressure</b>                    | 0.14 - 6 bar (2 - 87 psi) (to Preset<br>Pressure Regulator)  | <b>Certifications</b>                   | CE (EN 61326-1: 2006;<br>EN 61010-1: 2010;<br>EN 60529: 1991, +A1:2000 )<br><br>KC (EN 61326-1: 2006)<br><br>C-tick (EN 61326-1: 2006)<br><br>cETLus (UL 61010-1: 2012;<br>NEMA 250: 2003; CSA C22.2<br>No 61010-1: 2012) |
| <b>Sample Temperature</b>                 | 5 - 50 °C (41 - 122 °F)  |   |   |
| <b>Sample Flow Rate</b>                   | 55 - 300 mL/min  |   |   |

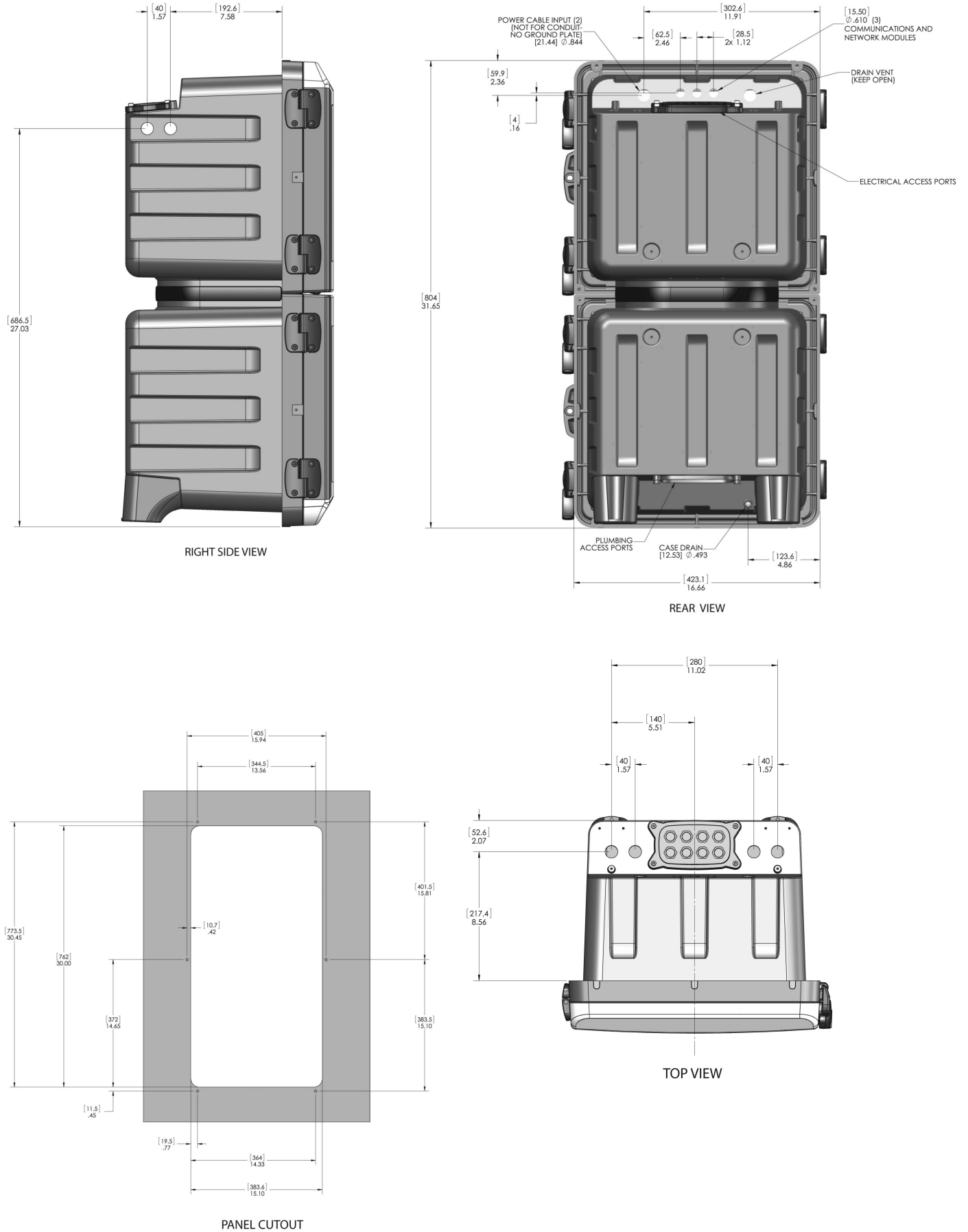
\*Subject to change without notice.

## Principle of Operation

Low Range Phosphate Analyzer - The LR Phosphate analyzer is a continuous-reading instrument using the ascorbic acid colorimetric method of analysis for measurement of phosphate at a wavelength of 880 nm.

High Range Phosphate Analyzer - The HR Phosphate analyzer is a continuous-reading instrument using the molybdovanadate colorimetric method of analysis for measurement of orthophosphate at a wavelength of 480 nm.

## Dimensions



## Order Information

### Instruments

|                        |   |
|------------------------|---|
| <b>5500.KTO.PH.A1U</b> | Hach 5500sc Phosphate High Range Analyzer, Proprietary chemistry only, AC, 1 channel  |
| <b>5500.KTO.PH.A2U</b> | Hach 5500sc Phosphate High Range Analyzer, Proprietary chemistry only, AC, 2 channels |
| <b>5500.KTO.PH.A4U</b> | Hach 5500sc Phosphate High Range Analyzer, Proprietary chemistry only, AC, 4 channels |
| <b>5500.KTO.PH.D1U</b> | Hach 5500sc Phosphate High Range Analyzer, Proprietary chemistry only, DC, 1 channel  |
| <b>5500.KTO.PH.D2U</b> | Hach 5500sc Phosphate High Range Analyzer, Proprietary chemistry only, DC, 2 channels |
| <b>5500.KTO.PH.D4U</b> | Hach 5500sc Phosphate High Range Analyzer, Proprietary chemistry only, DC, 4 channels |
| <b>5500.KTO.PL.A1U</b> | Hach 5500sc Phosphate Low Range Analyzer, Proprietary chemistry only, AC, 1 channel   |
| <b>5500.KTO.PL.A2U</b> | Hach 5500sc Phosphate Low Range Analyzer, Proprietary chemistry only, AC, 2 channels  |
| <b>5500.KTO.PL.A4U</b> | Hach 5500sc Phosphate Low Range Analyzer, Proprietary chemistry only, AC, 4 channels  |
| <b>5500.KTO.PL.D1U</b> | Hach 5500sc Phosphate Low Range Analyzer, Proprietary chemistry only, DC, 1 channel   |
| <b>5500.KTO.PL.D2U</b> | Hach 5500sc Phosphate Low Range Analyzer, Proprietary chemistry only, DC, 2 channels  |
| <b>5500.KTO.PL.D4U</b> | Hach 5500sc Phosphate Low Range Analyzer, Proprietary chemistry only, DC, 4 channels  |

Each Analyzer comes with a Hach reagents set for start up and up to 90 days of use.

### Reagents

|                |   |
|----------------|---|
| <b>6776100</b> | 5500sc Phosphate High Range Reagent Set |
| <b>2035400</b> | 5500sc Phosphate Low Range Reagent Set  |

### Accessories/Options

|                |                                      |
|----------------|--------------------------------------|
| <b>6787000</b> | Kit, Retrofit Panel, S5000 to 5500sc |
| <b>9179700</b> | Power Cord, North American           |
| <b>6786600</b> | Stainless Steel Sample Adapter Kit   |
| <b>1757700</b> | Stainless Steel Sample Cooler        |
| <b>6792500</b> | Module Kit, Modbus (SC200)           |
| <b>6792600</b> | Module Kit, Profibus (SC200)         |

### Service Options

|                     |  |
|---------------------|--|
| <b>WRTUPG5500SC</b> | 5500sc WarrantyPlus™ Instrument Protection and Service |
|---------------------|--|

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