

HACH 5500 sc PHOSPHATE ANALYSER

Applications

- Power



Lower maintenance, less downtime

Delivering reliable results that save you critical time and effort.

90 days of continuous runtime

Only two litres of reagent are required for the analyser to perform unattended for up to 90 days; twice as long as the previous analyser versions.

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 colour-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 analyser, and facilitate taking a sample out of the analyser to verify in a lab test.

Technical Data*

Measuring principle	Colorimetric	Number of channels	1, 2, 4; programmable sequence
Measuring range	LR model: 4 - 3000 µg/L as PO ₄ [Detection range capable of 4 - 5000 µg/L as PO ₄]	Grab sample	Grab Sample In and Grab Sample Out capability
Accuracy	HR model: 200 - 50000 µg/L as PO ₄ LR model: ±4 µg/L or ±4% of reading, whichever is greater; HR model: ±500 µg/L or ±5% of reading, whichever is greater	Mounting	Wall, panel or table
Repeatability	LR model: ±1% HR model: ±500 µg/L or ±5% of reading, whichever is greater	Fitting	Sample line and sample bypass drain: 6 mm (¼-in.) Air purge inlet: 6 mm (¼-in.)
Detection limit	LR model: 4 µg/L HR model: 200 µg/L	Power requirements (Voltage)	100 - 240 V AC, 24 V DC
Response time	Typically, 9.5 minutes at 25 °C; changes with temperature	Power requirements (Hz)	50/60 Hz
Reagent consumption	2 L of each reagent every 90 days with 15 minute cycle time	Output	4 - 20 mA
Operating temperature range	5 - 45 °C	Dimensions (H x W x D)	804 mm x 452 mm x 360 mm
Operating conditions	5 - 95 % relative humidity, non-condensing (indoor use only)	Enclosure waterproof rating	NEMA 4X/IP56
Sample pressure	0.14 - 6 bar (to preset pressure regulator)	Certifications	CE (EN 61326-1: 2006; EN 61010-1: 2010; EN 60529: 1991, +A1:2000) KC (EN 61326-1: 2006) C-tick (EN 61326-1: 2006) cETLus (UL 61010-1: 2012; NEMA 250: 2003; CSA C22.2 No 61010-1: 2012)
Sample temperature	5 - 50 °C		
Flow rate	55 - 300 mL/min		

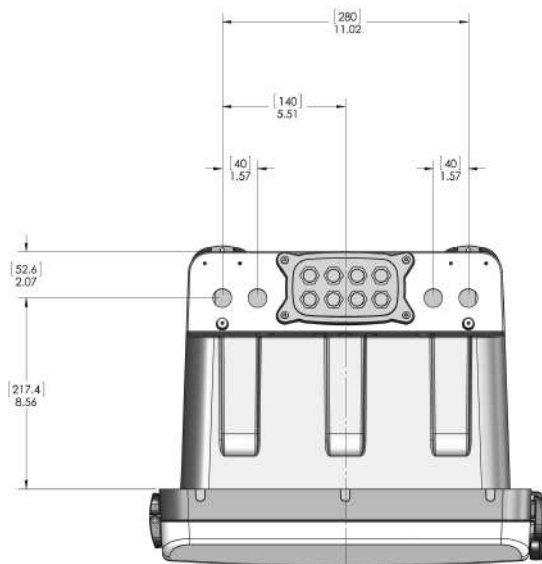
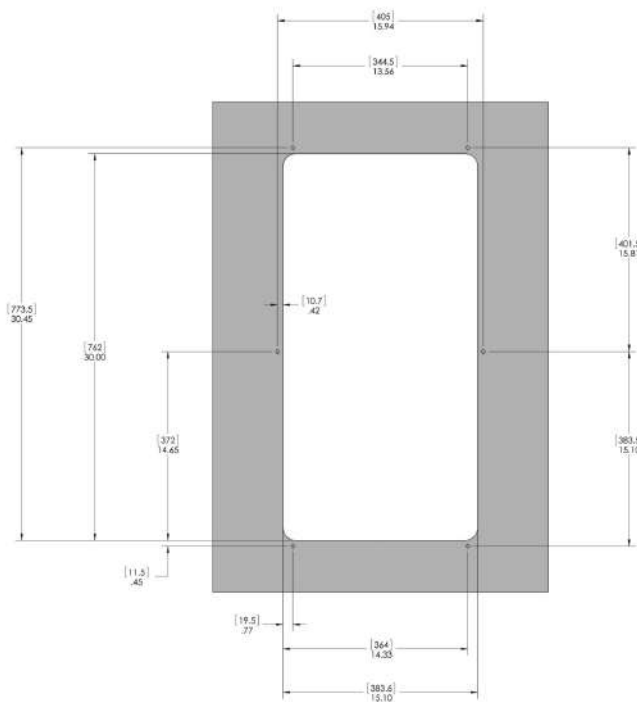
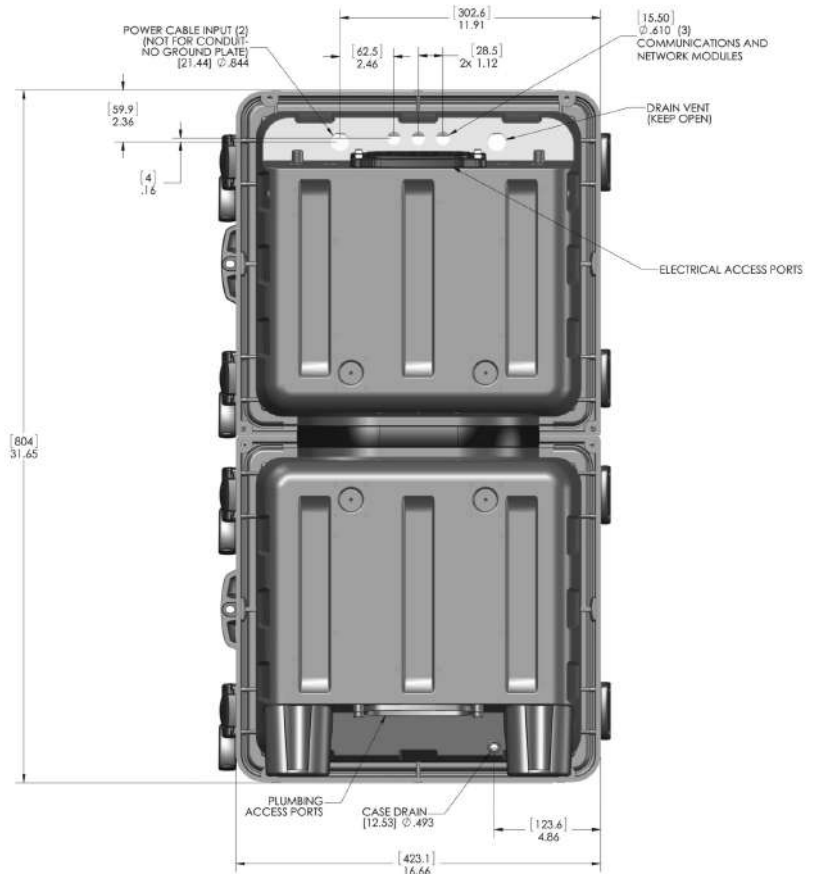
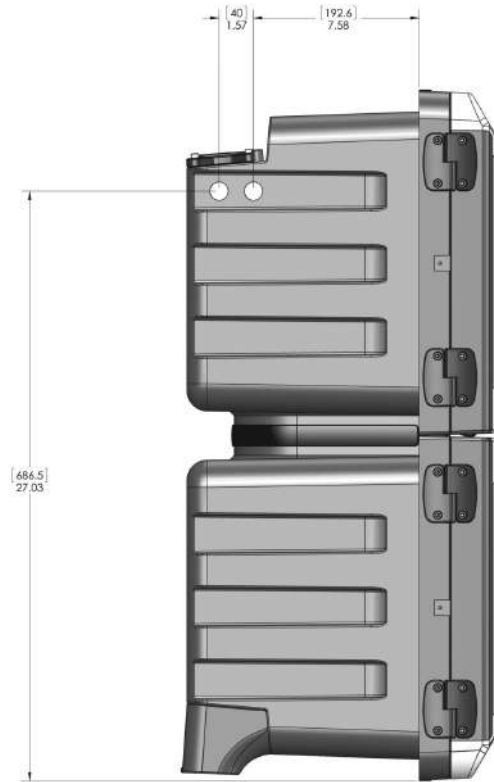
*Subject to change without notice.

Principle of Operation

Low Range Phosphate Analyser - The LR phosphate analyser 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 Analyser - The HR phosphate analyser 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

5500.KTO.PH.A1E	Hach 5500 sc Phosphate High Range Analyser, proprietary chemistry only, AC, 1 channel
5500.KTO.PH.A2E	Hach 5500 sc Phosphate High Range Analyser, proprietary chemistry only, AC, 2 channels
5500.KTO.PH.A4E	Hach 5500 sc Phosphate High Range Analyser, proprietary chemistry only, AC, 4 channels
5500.KTO.PH.D1E	Hach 5500 sc Phosphate High Range Analyser, proprietary chemistry only, DC, 1 channel
5500.KTO.PH.D2E	Hach 5500 sc Phosphate High Range Analyser, proprietary chemistry only, DC, 2 channels
5500.KTO.PH.D4E	Hach 5500 sc Phosphate High Range Analyser, proprietary chemistry only, DC, 4 channels
5500.KTO.PL.A1E	Hach 5500 sc Phosphate Low Range Analyser, proprietary chemistry only, AC, 1 channel
5500.KTO.PL.A2E	Hach 5500 sc Phosphate Low Range Analyser, proprietary chemistry only, AC, 2 channels
5500.KTO.PL.A4E	Hach 5500 sc Phosphate Low Range Analyser, proprietary chemistry only, AC, 4 channels
5500.KTO.PL.D1E	Hach 5500 sc Phosphate Low Range Analyser, proprietary chemistry only, DC, 1 channel
5500.KTO.PL.D2E	Hach 5500 sc Phosphate Low Range Analyser, proprietary chemistry only, DC, 2 channels
5500.KTO.PL.D4E	Hach 5500 sc Phosphate Low Range Analyser, proprietary chemistry only, DC, 4 channels

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

Reagents

6776100	5500 sc Phosphate High Range reagent set
2035400	5500 sc Phosphate Low Range reagent set

Accessories/Options

6787000	Kit, retrofit panel, S5000 to 5500 sc
9179800	Power cord, Europe
6786600	Stainless steel sample adapter kit
1757700	Stainless steel sample cooler
6792501	Module kit, Modbus (SC200)
6792601	Module kit, Profibus (SC200)

Service Packages

TSE-COM-5500SC	Commissioning for online analyser 5500 sc. Includes operator training, first line maintenance and safety requirements.
TSE-MC-5500SC	Onsite one-off inspection for online analyser 5500 sc. Includes onsite visit on demand and final reporting.
TSE-BC-5500SC	Basic maintenance contract for online analyser 5500 sc. Includes regular onsite preventive maintenance and final reporting.
TSE-CC-5500SC	Comfort maintenance contract for online analyser 5500 sc. Includes regular onsite preventive maintenance and final reporting. Extended warranty up to 60 months.