



## SC4500 Controller, Profibus DP, 2 Analog UPW pH/ORP Sensors, 100-240 VAC, without power cord

**Product #:** LXV525.99A02771

**AED Price:** Contact Hach

### Ready for Now. Ready for the Future.

Technologies are advancing rapidly, providing new levels of convenience, accuracy, and efficiency. Which is exactly why the SC4500 Controller from Hach® is designed to integrate easily into your current system while allowing you to upgrade as your capabilities advance, without having to replace inventory. With a wide range of analog and digital connectivity options and the availability of intelligent instrument and data management features, the SC4500 unlocks the future, today.

#### Easy Adoption

The familiar experience of a modern touchscreen, the ability to use your current Hach sensors, and the same footprint as the SC200, make installation and integration of the SC4500 Controller seamless.

#### No Time for Downtime

The SC4500's built-in predictive diagnostic software ensures measurement confidence and reduces the risk of unexpected equipment downtime by enabling proactive maintenance planning via MSM, including step-by-step instructions.

#### The Connectivity Options You Need

The Controller provides local communication to SCADA or a PLC, as well as remote access through a secure, cloud-based connectivity option to integrate with Claros, the Water Intelligence System from Hach. From analog and advanced digital protocols to Wi-Fi, cellular or LAN, the SC4500 gives you the flexibility to adapt in a rapidly changing world.

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### Specifications

|                                  |   |
|----------------------------------|---|
| Altitude:                        | 3000 m maximum  |
| Analogue output functional mode: | Linear, PID   |
| Classification:                  | 1098402   |
| Communication (optional):        | Analog:<br><br>Five 0-20 mA or 4-20 mA analog outputs on each analog output module<br><br>Up to two analog Input modules (0-20 mA or 4-20 mA). Each input module replaces a digital sensor input. |
|                                  | Digital:<br><br>Profibus DPV1 module<br><br>Modbus TCP<br><br>Profinet IO module  |

Compatible instruments:

Ethernet IP module

Compatible Sensors and Analysers / Software Version (Release Year)

Amtax sc / V2.30 (2018) or higher

A-ISE sc / V1.02 or higher

AN-ISE sc / V1.08 (2013) or higher

N-ISE sc / V1.02 or higher

Nitratax clear sc, Nitratax eco sc, Nitratax plus sc / V3.13 (2013) or higher

NT3100sc/NT3200sc

Phosphax sc / V2.30 (2018) or higher

Phosphax sc LR/MR/HR / V1.01 (2018) or higher

TSS sc / V41.73 (2013) or higher

Solitax sc / V2.20 (2013) or higher

TU5300sc, TU5400sc / V1.34 (2017) or higher

SS7 sc (in Bypass) / V1.01 (2006) or higher

Ultraturb sc / V3.06 (2017) or higher

1720E / V2.10 (2006) or higher

Sonatax sc / V1.15 (2016) or higher

CL17sc / V2.7 (2019) or higher

CL10sc / V1.14 (2013) or higher

9184sc, 9185sc, 9187sc\* / V2.03 (2013) or higher

Uvas plus sc / V3.01 (2017) or higher

LDO 2 sc\* / V1.22 (2013) or higher

3798sc\* / V2.03 (2013) or higher

3700sc + Inductive Conductive Digital 6120800 / V3.00 (2017) or higher

3422sc + Contacting Conductive Digital 6120700 / V3.00 or higher

3700 analog + Conductivity Module LXZ525.99.D0004

3400 analog + Conductivity Module LXZ525.99.D0004

pHD sc\*, pHD-S sc / V3.10 (2016) or higher

1200-S sc\* / V2.04 (2013) or higher

pHD analog + Digital Gateway 6120500 / V3.00 (2017) or higher

pHD analog + pH/ORP Module LXZ525.99.D0003

RC and PC analog sensor + Digital Gateway for conventional analog pH and ORP sensors  
6120600 / V3.00 (2017) or higher

RC and PC analog + pH/ORP Module LXZ525.99.D0003

8362sc\* / V3.00 (2017) or higher

Polymetron pH/ORP analog + Ultrapure pH/ORP Module LXZ525.99.D0007

Polymetron Conductivity analog + Ultrapure Conductivity Module LXZ525.99.D0006

GS1440 and GS2440EX Sensors H<sub>2</sub>S

FP360 sc / V1 or higher

\*Hardware Version1 of instrument is not supported

Compatible network technologies:

GSM 3G/4G (e.g. AT&T, T-Mobile, Rogers, Vodafone etc.)

CDMA (e.g. Verizon)

Compliance certifications:

CE, ETL certified to UL and CSA safety standards (with all sensor types), FCC, ISED, KC, RCM, EAC, UKCA, SABS, C # (Morocco)

Conduit openings:

½" NPT conduit

Description:

Microprocessor-controlled and menu-driven controller that operates the sensor

Dimensions:

½ DIN - 144 x 144 x 192 mm (5.7 x 5.7 x 7.6 in.)

Display:

3.5-inch TFT colour display with capacitive touchpad

Enclosure waterproof rating:

UL50E type 4X, IEC/EN 60529–IP 66, NEMA 250 type 4X

Metal enclosure with a corrosion-resistant finish

Indoor/Outdoor:

Outdoor installation in direct sunlight or UV radiation requires UV protection screen and/or sunroof

Installation category:

Category II

Material:

Polycarbonate, aluminum (powder coated), stainless steel

Measurements:

Two analog device connectors

Mounting:

Wall, Pole, or Panel Mounting

Network connectivity:

LAN: Two Ethernet connectors (10/100 Mbps)

Cellular: External 4G

Wi-Fi

Operating temperature range:

-20 to 60 °C (-4 to 140 °F) (8 W (AC)/9 W (DC) sensor load)

-20 to 45 °C (-4 to 113 °F) (28 W (AC)/20 W (DC) sensor load)

Linear derating between 45 and 60 °C (-1.33 W/°C)

Output:

Profibus DP

Pollution degree:

4

Power requirements (Voltage):

100-240 VAC ±10%, 50/60 Hz; 1 A

Power supply:

Without power cord

Protection class:

I, connected to protective earth

Relays:

Two relays (SPDT);

Wire gauge: 0.75 to 1.5 mm<sup>2</sup> (18 to 16 AWG)

AC controller

Maximum switching voltage: 100 - 240 VAC

Maximum switching current: 5 A Resistive/1 A Pilot Duty

Maximum switching power: 1200 VA Resistive/360 VA Pilot Duty

DC controller

Maximum switching voltage: 30 VAC or 42 VDC

Maximum switching current: 4 A Resistive/1 A Pilot Duty

Maximum switching power: 125 W Resistive/28 W Pilot Duty

Sensor input:

Analog UPW pH/ORP

Storage conditions:

-20 to 70 °C, 0 - 95% relative humidity, non-condensing

USB Port:

Used for data download and software upload. The controller records approximately 20,000 data points for each connected sensor.

Warranty:

24 months

Weight:

1.7 kg (controller only, w/o modules)

What's included?:

SC4500 Controller, Profibus DP, without power cord; includes mounting hardware

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