



SC4500 Controller, Claros-enabled, 5x mA Output, 1 analog pH/ORP, 100-240 VAC, EU plug

Product #: LXV525.99CA1101

AED Price: Contact Hach

Ready for Now. Ready for the Future.

Digital controller for up to two compatible instruments.

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.

Specifications

Altitude:	3000 m maximum
Analogue output functional mode:	Linear, PID
Classification:	1098396
Communication (optional):	Analog: Five 0-20 mA or 4-20 mA analog outputs on each analog output module Up to two analog Input modules (0-20 mA or 4-20 mA). Each input module replaces a digital sensor input. Digital: Profibus DPV1 module

Modbus TCP

Profinet IO module

Ethernet IP module

Compatible instruments:

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 ₂ 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 device digital SC 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:	5x mA Output
Pollution degree:	4
Power requirements (Voltage):	100-240 VAC ±10%, 50/60 Hz; 1 A
Power supply:	With EU plug
Protection class:	I, connected to protective earth
Relays:	Two relays (SPDT);
	Wire gauge: 0.75 to 1.5 mm ² (18 to 16 AWG)

	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
Sensor input:	Analog pH/ORP
Software available:	Claros-enabled
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, Claros-enabled, with EU plug; includes mounting hardware

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