Digital Controller SC4200c



Applications

- Wastewater
- Drinking Water
- Industrial Water
- Other





The next generation controller

Remote access to online system data anytime, anywhere.

Data Access from Anywhere

Get easy access to crucial information, helping you manage your process and be proactive in your maintenance.

Anytime. Anywhere.

Always at a Glance: Measurement and Sensor Health

Be confident of your sensor health and measurement results with easy to understand color-coded LEDs and remote diagnostics providing you with actionable information including errors and warnings.

Fast and Intuitive Operation

Intuitive menu options allow you to calibrate your instruments quickly – helping you to easily set up your systems and optimize your processes. Using any internet-enabled device, this can be done from wherever you are.



Technical Data*

Description Microprocessor-controlled and

menu-driven controller that

operates the sensor.

Dimensions ½ DIN - 144 x 144 x 192 mm

 $(5.7 \times 5.7 \times 7.6 \text{ in.})$

Weight 3.7 lb (controller only, w/o modules)

NEMA 4X/IP66 metal enclosure **Enclosure Rating**

with a corrosion-resistant finish

Operating Temperature

Range

LAN version: -

20 - 60 °C (-4 - 140 °F)

Cellular version:

-20 - 55 °C (-4 - 131 °F)

Storage Conditions -20 - 70 °C (-4 - 158 °F), 0 - 95%

relative humidity, non-condensing

Altitude 2000 m (6562 ft) maximum

Installation Category Category II

Pollution Degree

Protection Class I, connected to protective earth

Power Requirements

(Voltage)

50/60 Hz

100 - 240 VAC

Power Requirements

(Hz)

Measurements Two device digital SC connectors

Relays High voltage:

Two relays (SPDT)

Maximum switching voltage:

250 VAC

Maximum switching current: 5 A (resistive only load)

Maximum switching power:

1250 VA, 125 W (resistive only load)

Wire gauge:

0.75 to 2.5 mm² (18 to 12 AWG)

Low voltage:

Four relays on each low voltage

relay module

Output Five 4-20 mA analog outputs on

each analog output module

Communication **Capabilities**

Profibus DPV1 card

Network Connectivity

LAN version: Two Ethernet

connectors (10/100 Mbps), switch function, M12 female D-coding

connector.

Cellular version: SIM card holder

(3G/4G).

The type of connection is dependent on controller

configuration.

USB Port Used for data download and

> software upload. The controller records approximately 20,000 data

points for each connected sensor.

Compliance Certifications CE approved (with all sensor types). Listed for use in general locations

to UL and CSA safety standards by

ETL (with all sensor types).

Certain AC mains powered models are listed for use in general safety locations to UL and CSA safety standards by Underwriters Laboratories (with all sensor types).

Warranty 1 year

Compatible Network Technologies

GSM 3G/4G (e.g. AT&T, T-Mobile,

Rogers, Vodafone etc.)

CDMA (e.g. Verizon)

Compatible Instruments Ammonium: Amtax sc, AN-ISE sc,

A-ISE sc

Nitrate: Nitratax sc, N-ISE sc

Phosphate: Phosphax sc

Organics: UVAS sc

pH: pHD sc

Conductivity: 3798-S sc

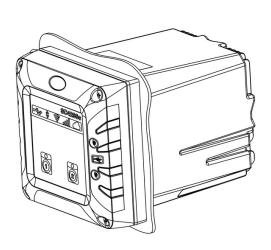
Dissolved Oxygen: LDO 2 sc

Suspended Solids: Solitax sc

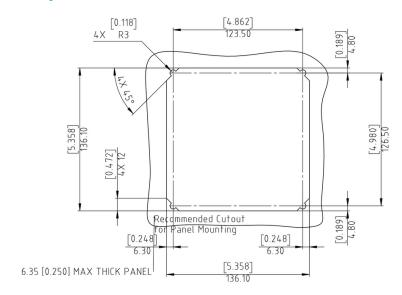
Sludge Level: Sonatax sc

*Subject to change without notice.

Dimensions



Panel mounting dimensions



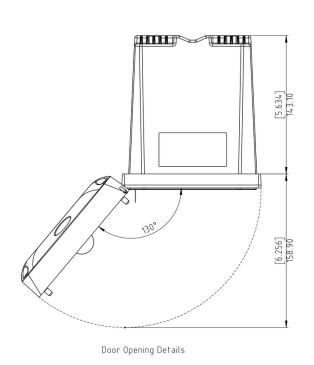
[1.00] 25.50

Top and bottom views

[0.654] 4X 16.60

> [1.319] 33.5

[7.579]



Designed to Accommodate
3/4" to 2-1/2" Vertical / Horisontal Pipe

[0.843] 5X 21.40

Order Information

Controller

LXV524.99.01120 SC4200c Controller, North American Cellular Modem, mA out,

2 digital Sensors, w/o plug

LXV524.99.01110 SC4200c Controller, North American Cellular Modem, mA out,

1 digital Sensor, w/o plug

LXV524.99.01720 SC4200c Controller, North American Cellular Modem, Profibus,

2 digital Sensors, w/o plug

LXV524.99.11120 SC4200c Controller, North American Cellular Modem, mA out,

2 digital Sensors, with plug

Other configurations are available. Please contact Hach Technical Support or your Hach representative.



LXZ524.99.00006 SC4x00c mA output module, 5 outputsLXZ524.99.00007 SC4x00c Profibus DP network moduleLXZ524.99.00008 SC4x00c Relay module, 4 low voltage relays

LXZ524.99.00013 Holder for tablets/mobiles **LXZ524.99.00004** UV protection screen

LXZ524.99.00005 UV protection screen with sunroof

LZY472-01 USB 2.0 Ethernet-Adapter for SC Service Port

LZV791 Memory-Stick (USB)

LXZ524.99.00033 Sunroof visor **LXZ524.99.00037** Sunroof

LQV155.99.00012 Power box with power connection cableLQV155.99.00002 Power box without power connection cable



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