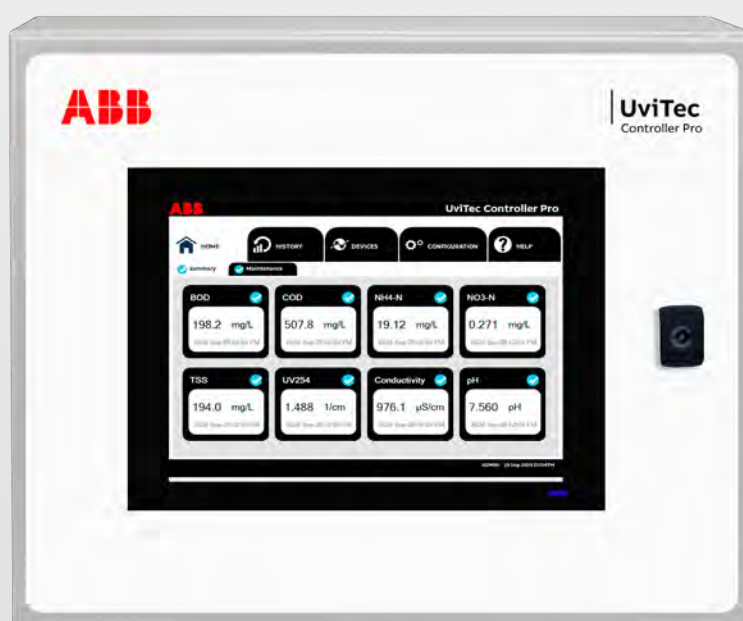


ABB MEASUREMENT & ANALYTICS | DATA SHEET | DS/AUV302-EN REV. B

UviTec™ Controller Pro

Sensor controller and monitor



Measurement made easy

Water quality monitoring solutions

About ABB Continuous Water Analysis

ABB's Continuous Water Analysis product line is a world leader with a broad portfolio that measures...

Aluminum, Ammonia, Benzene, BOD, COD, Chlorine, Chromium VI, Color, Conductivity, Dissolved Oxygen, DOC, Fluoride, Hydrazine, Hydrocarbons, Iron, Manganese, Monochloramine, Nitrate, Nitrite, Permanganate, pH, ORP, Phosphate, Silica, Sodium, Surfactants, TOC, TSS, Turbidity, UV254, UVT and more!

About UviTec products

UviTec products use spectrophotometric and fluorescence measuring techniques to deliver lab-quality water analysis results in the process environment. Through the power of UV/VIS technology, UviTec solutions enable rapid detection of a wide range of water quality parameters and compounds in real time.

Features & benefits of this product

- 307 mm (12.1 in) color LCD, touchscreen graphical interface
- Easy to navigate Liquid Ai™ software
- Multiple sensor and accessory integration
- Quick analysis of historic trends in seconds
- Modbus® TCP standard
- Optional Modbus RTU (RS485), 4 to 20 mA, digital I/O and cell modem

UviTec Controller Pro

Full control and monitoring of multiple sensors can be achieved with the plug-and-play UviTec Controller Pro. Featuring a 307 mm (12.1 in) color LCD touchscreen graphical interface, the controller offers superior functionality and configurability while maintaining ease of use and navigation.

The controller provides proprietary inputs for multiple UviTec sensors and accessories bringing all water quality data to a single location, making analysis quick and simple. Modbus TCP is standard with optional Modbus RTU (RS485), 4 to 20 mA input, 4 to 20 mA output, Digital I/O dry contacts and cell modem.

Controller upgrades

Table 1 UviTec Controller Pro upgrades

Part number	Name	Description
3KXA300000U0014	4 to 20 mA input (4)	4 to 20 mA input module, four channel
3KXA300000U0021	4 to 20 mA output (1)	4 to 20 mA output module, one channel
3KXA300000U0022	4 to 20 mA output (2)	4 to 20 mA output module, two channel
3KXA300000U0023	4 to 20 mA output (3)	4 to 20 mA output module, three channel
3KXA300000U0024	4 to 20 mA output (4)	4 to 20 mA output module, four channel
3KXA300000U0017	Modbus RTU (RS485)	Modbus RTU (RS485) for UviTec Controller Pro
3KXA300000U0015	Digital I/O dry contact module	4 input and 4 output dry contacts
3KXA300000U0019	5 V expansion board	5 V expansion board to connect DO/TURB/CON/PHORP probes to UviTec Controller Pro
3KXA300000U0027	Cell modem (North America)	Connectivity via cell modem – North America
3KXA300000U0028	Cell modem (Global)	Connectivity via cell modem – Global

Dimensions

The UviTec Controller Pro is installed directly on a wall, railing or system backboard.

Dimensions shown in mm (in).

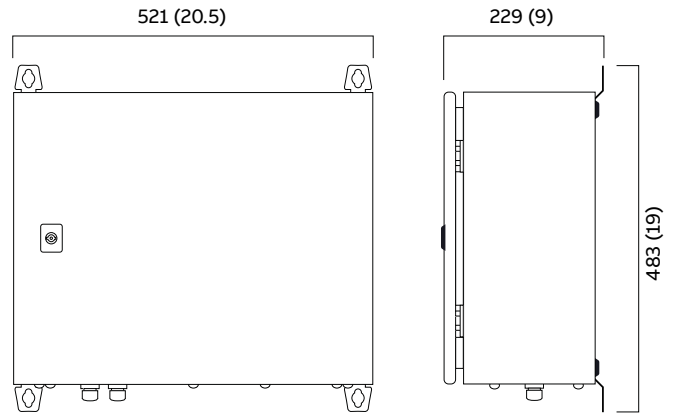


Figure 1 UviTec Controller Pro dimensions

Specifications

Compatibility

All UviTec sensors and accessories.

Display/operator interface

307 mm (12.1 in) color LCD 1,024 × 768, touchscreen graphical interface.

Operating system

Windows® Embedded

Memory

32 GB

Inputs

Proprietary inputs for multiple UviTec sensors and accessories, Modbus RTU (RS485), and Modbus TCP.
Optional: 4 to 20 mA inputs, Digital inputs.

Alarms

Display of sensor specific alarms. Aggregate alarms.

Communication

Modbus TCP standard.
Optional: Modbus RTU (RS485), 4 to 20 mA outputs, Digital outputs, cell modem

Data logging

Onboard (18 months nominal configuration dependent).
Export data via USB.
Optional:
Remote data logging with Liquid Ai services.

Electrical

24 V DC power adapter (accepts 90 to 250 V AC, 50/60 Hz)

Enclosure

NEMA 4, wall-mountable

Dimensions (H × W × D)

483 × 521 × 228 mm
(19.0 × 20.5 × 9.0 in)

Operating temperature

0 to 45 °C
(32 to 113 °F)

Storage temperature

-20 to 60 °C
(-4 to 140 °F)

Weight

15.87 kg
(35 lb)

Ordering information

UviTec Controller Pro (ABB part number: 3KXA300302 V)	AUV302/	XXX	Options
Version			
Pro (External on door model)		RCE	

Optional ordering codes

Add 1 or more of the following codes after the standard ordering information to select any additional options if required:

Controller upgrades (multiple sel)

4 to 20 mA input module (4 channels)	CU1
Digital I/O module, 4 input and 4 output	CU2
Modbus RTU (RS485) for UviTec Controller Pro	CU4
5 V expansion board for UviTec Controller Pro	CU6
4-20 mA output module – 1 channel	AO1
4-20 mA output module – 2 channel	AO2
4-20 mA output module – 3 channel	AO3
4-20 mA output module – 4 channel	AO4

Cell modem

Cell modem (North America) for UviTec Controller Pro	CM3
Cell modem (Global) for UviTec Controller Pro	CM4

Documentation language

English	M5
German	M1
Italian	M2
Spanish	M3
French	M4

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- Modbus is a registered trademark of Schneider Electric USA, Inc.
- UviTec is a trademark of ABB Limited.
- Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

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