
ABB MEASUREMENT & ANALYTICS | DATA SHEET | DS/AUV301-EN REV. B

UviTec™ Controller

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

- Simple to operate and control
- 4 line × 20 character backlit LCD
- Comprehensive hierarchical menu system
- Multiple sensor and accessory integration
- Modbus® (RS485), one 4 to 20 mA output as well as four digital inputs and four digital outputs (user-configurable to dry contact or powered) are standard
- Optional additional 4 to 20 mA, Modbus TCP and cell modem

UviTec Controller

The plug-and-play UviTec Controller provides a simplified version of the UviTec Controller Pro. Featuring a character LCD display, hierarchical menu system and correlation software.

A single UviTec sensor or multiple sensors and peripheral accessory devices can easily be controlled and configured from one location. Modbus (RS485), one 4 to 20 mA output as well as four digital inputs and four digital outputs (user configurable to dry contact or powered) are standard. Additional 4 to 20 mA, Modbus TCP, and cell modem optional.

Dimensions

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

Dimensions shown in mm (in).

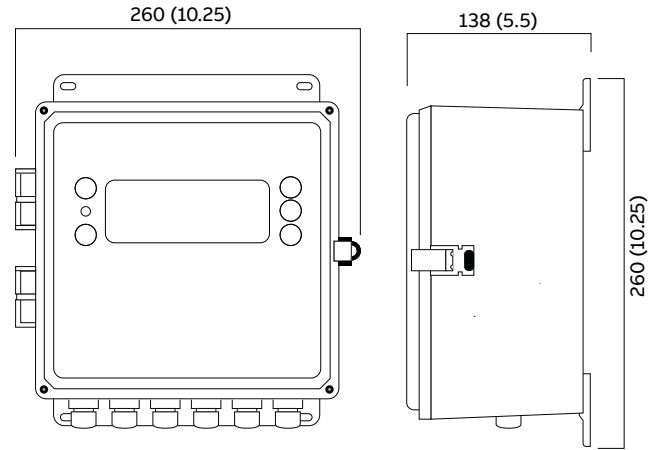


Figure 1 UviTec Controller dimensions

Specifications

Compatibility

All UviTec sensors, except:

- UviTec Spectrum (PL),
- UviTec Spectrum (GL) and
- UviTec Spectrum (GA) sensors

All UviTec accessories, except UviTec Pump Clean Pro.

Display

4 line × 20 character backlit LCD with LED indicator

Operator interface

Five push buttons to control a comprehensive hierarchical menu system

Alarms

Display of sensor specific alarms.

Inputs

Proprietary inputs for UviTec sensors and accessories, and dry contact inputs standard.

Communication

Modbus (RS485), one 4 to 20 mA output as well as four digital inputs and four digital outputs (user-configurable to dry contact or powered) are standard, digital I/O expansions, Modbus TCP, and cell modem optional.

Data logging

Onboard. 6-month nominal (configuration dependent).

Optional:

Remote data logging. Export data via USB.

Electrical

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

Enclosure

NEMA 4, wall-mountable

Dimensions (H × W × D)

260 × 260 × 140 mm

(10.25 × 10.25 × 5.5 in)

Operating temperature

0 to 45 °C

(32 to 113 °F)

Storage temperature

-20 to 60 °C

(-4 to 140 °F)

Weight

3.62 kg

(8 lb)



Ordering information

UviTec Controller (ABB part number: 3KXA300301 V)	AUV301/	XXX	Options
Version			
Standard		RCS	

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
Modbus TCP for UviTec Controller		CU3
5 V expansion board for UviTec Controller		CU5
Additional 4 to 20 mA output		
One extra channel (2 outputs total)		AO2
Two extra channels (3 outputs total)		AO3
Three extra channels (4 outputs total)		AO4
Cell modem		
Cell modem (North America) for UviTec Controller		CM1
Cell modem (Global) for UviTec Controller		CM2
Documentation language		
English		M5
German		M1
Italian		M2
Spanish		M3
French		M4



Trademarks

- Modbus is a registered trademark of Schneider Electric USA, Inc.
- UviTec is a trademark of ABB Limited.

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For more product information, visit:
abb.com/measurement

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