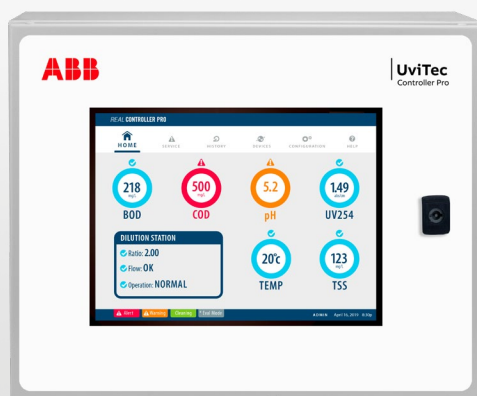


UviTec™ Controller Pro

Sensor controller and monitor

Measurement made easy



UviTec Controller Pro

Introduction

The UviTec Controller Pro provides full control of a single or multiple sensors and optional accessory products. The 12.1" colour LCD touch screen graphic interface allows for display of data and superior functionality for configuration and control.

Introduction

Further information is available from:
www.abb.com/measurement,
 or by scanning this code:



ABB Ltd

1150 Champlain Court
Whitby ON L1N6K9
Canada
(905) 665-6888
info@realtechwater.com

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2 Overview

Thank you for purchasing from ABB Ltd

The UviTec Controller Pro provides full control of a single or multiple sensors and optional accessory products. The 12.1" colour LCD touch screen graphic interface allows for display of data and superior functionality for configuration and control.

Model Number	S-11TPCD (PC external on cabinet door) S-11TPC (PC inside cabinet)
Serial Number*	

*Your Serial Number is located on the inside of the cabinet door.



3 Safety and Warranty Registration

3.1 Safety Instructions



Please read and follow all safety instructions outlined in this owner's manual prior to installation and/ or operation.

1. Visually inspect the device prior to operation. If it seems broken or damaged in any way, do not use. Contact ABB Ltd for a replacement.
2. Ensure that all responsible personnel carefully read this manual before installing or servicing the device.
3. Failure to properly install and maintain this device may impact its effectiveness and warranty.
4. Improper use of this device may cause injury.

3.2 Warranty Registration

Please register within 30 days

To activate your standard two-year warranty for your product, the end user of the product is responsible for filling out the warranty registration information for their company. Failure to do so could void the warranty. See the warranty section for full details on ABB's two-year warranty program.

Please register online at: www.realtechwater.com/product-registration.

Thank you for choosing ABB!

4 Technical Specifications

Table 4.1: UviTec Controller Pro Specifications

CHARACTERISTIC	TECHNICAL DATA
DISPLAY	12.1" (30 cm) color LCD 1024 x 768
OPERATOR INTERFACE	Touch screen graphical interface
OPERATING SYSTEM	Windows Embedded
MEMORY	32 GB
INPUTS	Proprietary inputs for ABB sensors and accessories. Up to 8 inputs for 4-20mA plug and play sensors (optional)
ALARMS	Display of sensor specific alarms. Aggregate alarms.
COMMUNICATION	Modbus TCP standard. Optional: Modbus (RS485), 4-20mA outputs, Cell Modem.
DATA LOGGING	Onboard (18 months nominal configuration dependent). Export data via USB. Optional: Remote data logging with Liquid Ai services.
ELECTRICAL	24VDC power adapter (accepts 90-250VAC 50/60Hz)
ENCLOSURE	NEMA 4, wall mountable
DIMENSIONS	19.0"H x 20.5"W x 9.0"D (48.26 cm H x 52.07 cm W x 22.86 cm D)
OPERATING TEMP	0°C to 45°C (32°F to 113°F)
STORAGE TEMP	-20°C to +60°C (-4°F to +140°F)
WEIGHT	35 lb (15.88 kg)
WARRANTY	2-year limited warranty

5 Installation

5.1 Unpacking and Inspection

To begin, remove components from the packaging and carefully inspect the products to ensure that no visible damage has occurred during shipping. Next, remove the packing material that is contained inside the cabinet.

The following items will be packed inside the boxes:

Table 5.1: Items and quantity list for unpacking

ITEM	QUANTITY
UviTec Controller Pro	1
Owner's Manual	1
24VDC Power Supply	1
Cell Modem Antenna (optional)	1

Please ensure all items are unpacked and accounted for before moving on to assembly.

5.2 Mounting

The controller is fixed inside a wall mountable cabinet. The cabinet should be attached to the wall at all four of the mounting holes provided as shown in Figure 5.1.

Use screws up to $\frac{5}{16}$ " in size with washers to support the system weight of approximately 35 lbs.

The controller cabinet should be mounted less than 2 feet from bypass sensors and as close as possible to probe sensors (probe sensors have 35 ft. cable standard). Clearance and dimensions for the cabinet are shown in Section 7: Cabinet Clearance and Dimensions.



Figure 5.1: Cabinet mounting

5.3 Electrical and Communication

The power and communication line feeds into the controller via a conduit fitting on the bottom of the controller cabinet from the sensor as shown in Figure 5.2.

Wiring connections at the bottom of the control board are described in Table 5.2. Figure 5.2 shows this view. When needed, connection to an additional accessory or upgrade for digital I/O or 4-20mA, can be made at the top of the control board as shown in Figure 5.3. The same pattern of connection of white at A, green at B, black at -, and red at + applies.

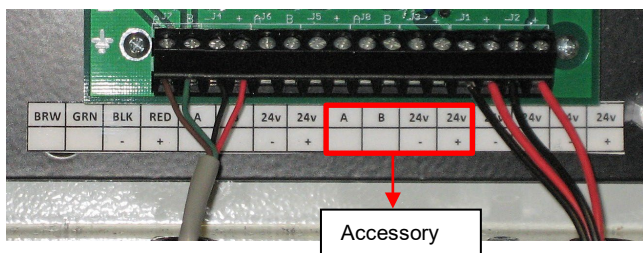


Figure 5.2: UviTec Controller Pro terminal connections

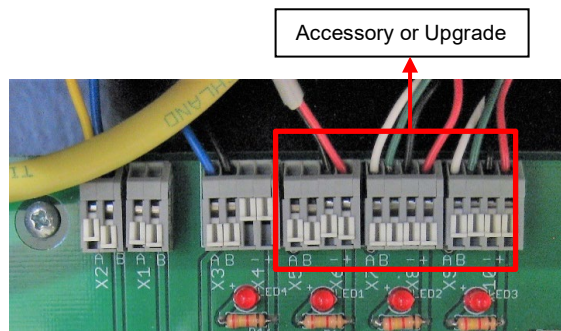


Figure 5.3: Additional terminals at top of control board

Table 5.2: Terminal connections at bottom end of control board (left to right)

Terminal	Label	Description	Function
1	BRW/WHT	Brown/White	Provides power and communications to primary ABB Sensor
2	GRN	Green	
3	BLK	Black	
4	RED	Red	
5	A	Modbus Slave RS-485 – A (white)	Connect to customer PLC or laptop. Makes UviTec Controller Pro slave to customer device. (Optional feature)
6	B	Modbus Slave RS-485 – B (green)	
7	24v –	Black	
8	24v +	Red	
9	A	Modbus Master RS-485 – A (white)	Connects to ABB accessory and controls function of that device.
10	B	Modbus Master RS-485 – B (green)	
11	24v –	Black	
12	24v +	Red	
13	24v –	24 VDC – (IN)	13 (ground), 15 (black) and 16 (red) for connection to 2-wire power supply. 13 to 16 for connection to 4-wire power supply
14	24v +	24 VDC + (IN)	
15	24v –	24 VDC – (IN)	
16	24v +	24 VDC + (IN)	

Devices that require 5 volts for operation are to be connected to a separate power and communications board. This board will be mounted in the right middle of the back panel inside the controller housing. See Figure 5.4 and Table 5.3.