7300w² Monitor

Monitor for the WaterWatch² Range

PRODUCT DATASHEET

The 7300w² Monitor is the core product in the WaterWatch² range, designed to interface with all the sensors in the WaterWatch² range. It provides all the connections required for 1 or 2 sensors, systems can be created by the use of expansion boxes to include multiple sensors. By allowing the user to connect a variety of sensors to just one monitor and with the option for a single MODBUS or PROFIBUS output cable, the 7300w² greatly reduces installation costs, setup complexity and equipment configuration.

DO, MLSS, & ORP or pH sensors in an aeration lane or Turbidity, pH & temperature at the final effluent point are just 2 examples of where the 7300w² can save a user over 60% compared with a separate monitor for each sensor. The 7300w² network can be expanded so additional measurement points can be added at a later date.

In both terms of software and hardware, the 7300w² has been designed with the user in mind:

- Easy to read LCD display, visible even in direct sunlight
- Large touch buttons with feedback for use with gloves
- Intuitive menu structure to allow for minimal training and setup
- Automatically register and sets up sensors when connected

The 7300w² contains an inbuilt trending display, customer configurable, that shows the last 24 hours data for any measurement point on an easy to navigate graph. This can also be downloaded for reporting purposes. An external USB port and data logging function allows users to log and retrieve all stored data for a site in a standard .csv format without the need for specialist SD cards or compatible hardware.
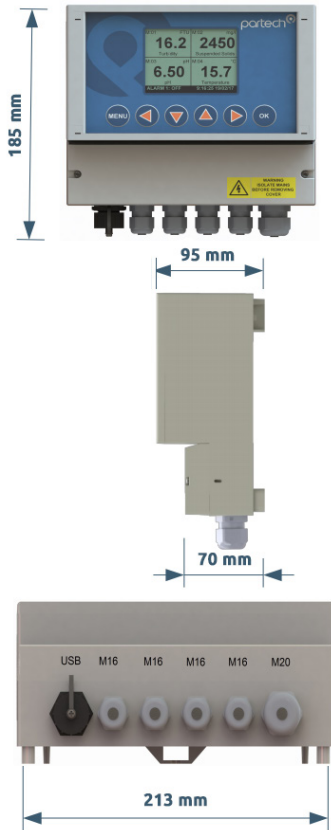
7300w² Monitor

Monitor for WatchWatch² Range

PRODUCT SPECIFICATION

185 mm
95 mm
70 mm
213 mm

Order Codes

Part No   Description

223160   7300w² Monitor (85-264VAC, 2 x 0/4-20mA Output, 3 x Relay Outputs)

223161   7300w² Monitor 9-36VDC, 2 x 0/4-20mA Output, 3 x Relay Outputs)

226974   7300w² (85 to 264VAC, MODBUS Slave, 1 Relay output)

226975   7300w² (9 to 36VDC, MODBUS Slave, 1 Relay output)

Physical

Dimensions	185 x 213 x 95 mm (H x W x D)
Weight	1.4 kg
Protection Class	IP65
Enclosure Material	Polycarbonate (PC)
Cable Entries	1 x M20, 4 x M16, 1 x USB Type A

Environmental Data

Operating Temperature	-20 to +70°C, 0 to 95% Humidity (non-condensing)

Electrical

Power Supply	85 to 264VAC, 50/60 Hz or 9 to 36VDC
Power Rating	AC Supply - 0.8 A
	DC Supply - 30 W

Output/Interfaces

Analogue Outputs	0/4-20mA, max load 750 ohms
Serial Outputs	Modbus RTU/RS485 & Profibus DP (expansion box required for Profibus DP)
Relays	3 (reduced to 1 relay for Modbus/Profibus)
Relay Type	SPCO
Relay Rating	Max 5A @30VDC/230VAC
Auxiliary Connections	Confurable for Remote Input, Device Power

Sensor Interface

Digital Communications	ModTechw² - RS485

User Interface

Display	Graphical LCD, Black on White
Backlight	On/Off/On after keypress, with user adjustable contrast
Keypad	6 Key
Trending Display	24 hour trend display - user configurable
Datalogging	USB port for user memory stick
	10,000 records limit
	User configurable intervals 1-999 seconds

Mounting

Handrail mounting plate	PN223974
Mounting plate with isolator	PN223975
Outer enclosure with isolator	PN226786/226787 AC/DC Models