



7300w²™ Monitor

Triple Validation Specification

PRODUCT DATASHEET

SPECIALIST FEATURE

Triple Validation

COMPATIBLE PARTECH SENSORS

TurbiTechw²™ LA

TurbiTechw²™ LS

TurbiTechw²™ HR

TurbiTechw²™ LR

SoliTechw²™ ST

SoliTechw²™ IR

SoliTechw²™ IL

OilTechw²™ FLT

OxyTechw²™ OPT

OxyTechw²™ GAL

WaterTechw²™ PHEVT

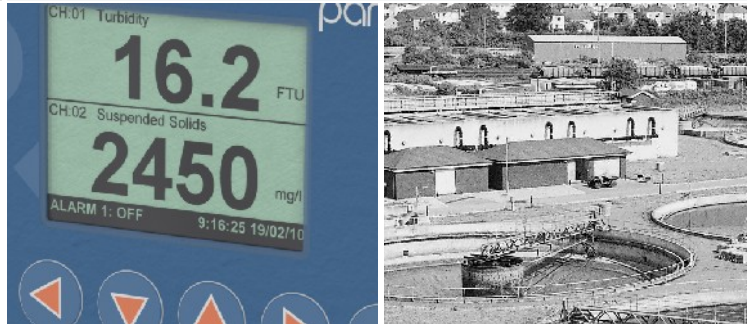
WaterTechw²™ C4E

THIRD PARTY INPUTS

4-20 mA

0-5 V

Modbus



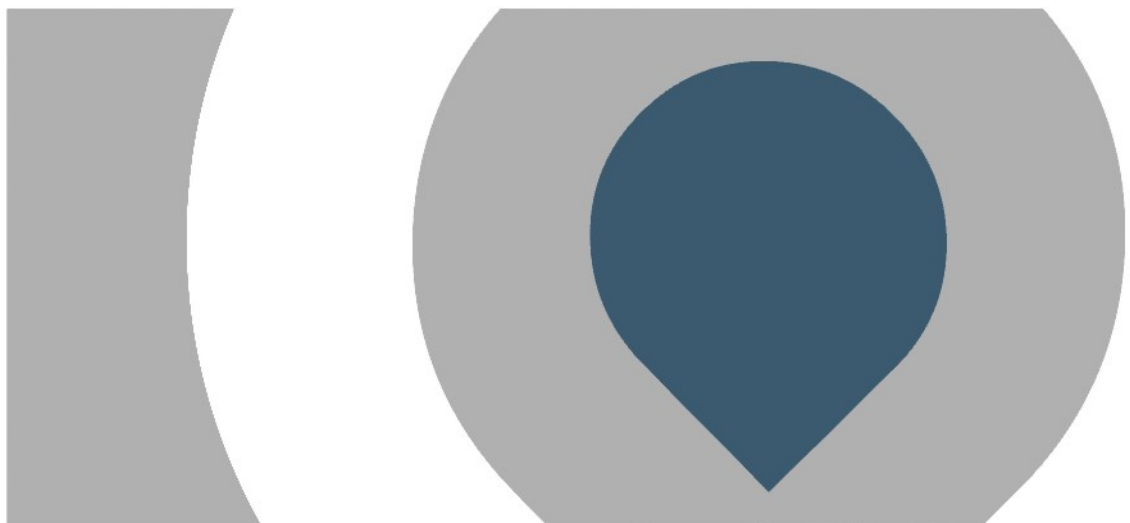
The 7300w² Monitor is the core to the WaterWatch² product range, the monitor is designed to interface with all the sensors in the WaterWatch² range and is also capable of taking process signals from other instrumentation.

The monitor includes specialist algorithms to provide monitoring and control signals, one such algorithm is Triple Validation. In this form the 7300w² monitors three process signals, all covering the same parameter and performs a check on the signals under one of a number of optional algorithms. The inputs can come from our own sensors or from existing third party products.

- Option 1: Average of Nearest Two Inputs
- Option 2: Average all Three Inputs
- Option 3: Accept Middle Value

Alarm outputs are provided giving warnings where one or more input signal is considered to be out of its acceptable working criteria.

Triple Validation is a widely accepted method of ensuring reliable control of critical processes and is often used in drinking water treatment control. If your process needs an alternative validation algorithm we are more than happy to add more control options.



Call us on 01726 879800 www.partech.co.uk





7300w²™ Monitor

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PRODUCT SPECIFICATION

Electrical

Power

90 to 264 VAC, 50/60 Hz
or 9-30 VDC

Power Rating

30W

If more than 2 sensors are to be used, then an external higher rated power supply may be necessary

Cable Entries

1xM20, 4xM16, 1x M12

Core size

2.5 mm²

Outputs/Interfaces

Analogue Outputs

0/4-20 mA, max load 750 ohms

Relays

3 (reduced to 1 relay for Profibus version)

Relay Type

SPCO

Relay Rating

8A @ 30VDC

Digital Communications

Profibus DP, alternative protocols available on request

Auxiliary Connections

Configurable for Remote Input, Device Power

Physical

Dimensions

213x185x95 mm (hwxwd)

Protection Class

IP65

Enclosure Material

ABS

Weight

1.4 kg

Temperature

-20 to 70°C, 0 to 95% Relative Humidity, Non-Condensing

Mounting

Wall or Rail Mounting brackets available

Sensor Interface

Analogue Input

4-20 mA or 0-5VDC

Digital Communications

RS485 Modbus RTU

User interface

Display

Graphic LCD, Black on White, Transreflective

Viewing Area

78 x 59 mm

Backlight

On/Off/On after keypress with user adjustable contrast

Membrane Keypad

6 Key, pillow embossed, 20 mm diameter

Order Codes

Part No	Description
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223160	7300w ² ™ Monitor (90-264VAC, 2 x 0/4-20mA Output, 3 x Relay Outputs)
223161	7300w ² ™ Monitor (9-30VDC, 2 x 0/4-20mA Output, 3 x Relay Outputs)
223162	7300w ² ™ Monitor (90-264VAC, Profibus DPV1, 1 Relay Output)
223163	7300w ² ™ Monitor (9-30VDC, Profibus DPV1, 1 Relay Output)
224072	WaterWatch ² Expansion Box (90 to 264 VAC, Triple Validation, 4-20mA per measurement)

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The company reserves the right to alter the specification without prior notice. E&OE

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