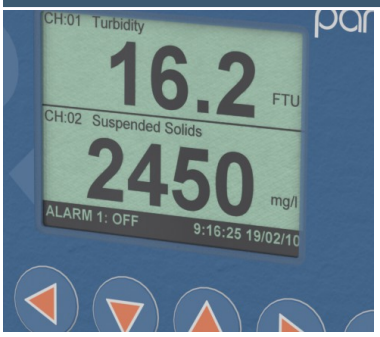
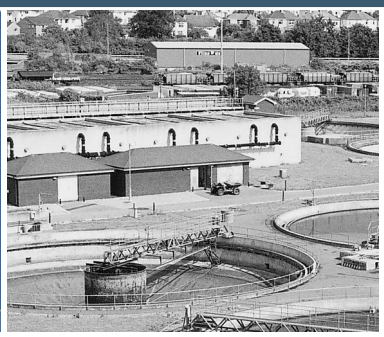
7300w² Monitor

Monitor for the WaterWatch² Range

PRODUCT DATASHEET





KEY FEATURES

- Multisensor
- Multiparameter
- Graphic Display with Trending
- 4-20mA and Relay Outputs
- Profibus DP Communications
- 90-264 VAC or 9-36 VDC Power Supply

COMPATIBLE SENSORS

- TurbiTechw² LA
- TurbiTechw² LS
- TurbiTechw² HR
- TurbiTechw² LR
- SoliTechw² ST
- OilTechw² FLT
- OxyTechw² OPT
- OxyTechw² GAL
- WaterTechw² PHEVT
- WaterTechw² pH800
- WaterTechw² Redox8000
- WaterTechw² C4E
- ColTechw²

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. The monitor specification provides all the connections required for 1 or 2 sensors, systems can be expanded by the use of expansion boxes to include multiple sensors. The maximum number of sensors will be limited by the practicalities of most sites. We anticipate 8 being a sensible maximum although many more can be accommodated.

Combining sensors provides a very cost effective way of simultaneously monitoring parameters such as Dissolved Oxygen and Suspended Solids in an Activated Sludge Plant, or pH and Turbidity at a treatment works outfall where the sensors can be located close together.

Installations can be expanded in the future if extra measurement points or parameters are required, the monitor will not need to be replaced, simply add the extra hardware and re-configure the settings.

The advanced serial communication between the monitor and sensors mean the calibration and configuration data can be preserved if either part is replaced and can be copied from sensor to sensor further reducing the time required for configuration and for maintenance. The user interface on the monitor is highly intuitive, making setup and operation straightforward to carry out. This saves time and avoids the need for specialist training, most commands are self explanatory and the menu structure leads the user though the principle configuration stages

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7300w^2 Monitor

Monitor for the WaterWatch^2 Range

PRODUCT DATASHEET

The 7300w^2 Monitor has been designed to make our customer's lives easy. The graphical display has been chosen to provide the best possible contrast, even in bright sunlight. In normal operating mode the display gives a large digit display of the measured parameter(s), the user can also select a trend display giving an indication of site performance over the last week.

The setup and maintenance menus can be accessed by pressing the menu key and following the on-screen instructions. The membrane keypad has large 20 mm keys that have a positive action allowing use of the monitor whilst wearing gloves. The use of a touch sensitive display was considered, however this idea was rejected as feedback from our customers indicated that such displays are unreliable in outdoor, arduous applications.

We offer a range of standard installation options, ranging from a simple handrail bracket, to a package including an outer enclosure, isolator and handrail mounting struts. In addition we offer a bespoke design service to ensure that our monitoring system meets the exact requirements of your site. As with all our products we can supply these options as just the hardware or provide installation and commissioning services that fully guarantee a trouble free installation.

WaterWatch^2 Range

The WaterWatch^2 range has been developed to provide a complete solution to monitoring applications in water, wastewater, industrial effluent and surface water environments. The range will continually evolve to cover more and more parameters and to include a wide variety of of control and interfacing options. The basic model will cover most of the requirements and can be upgraded to include advanced or new features if necessary.

Where a new feature or option is required our team of highly experienced engineers will review the requirements and provide a cost effective solution to meet your needs.

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7300w^2 Monitor

Monitor for the WaterWatch^2 Range

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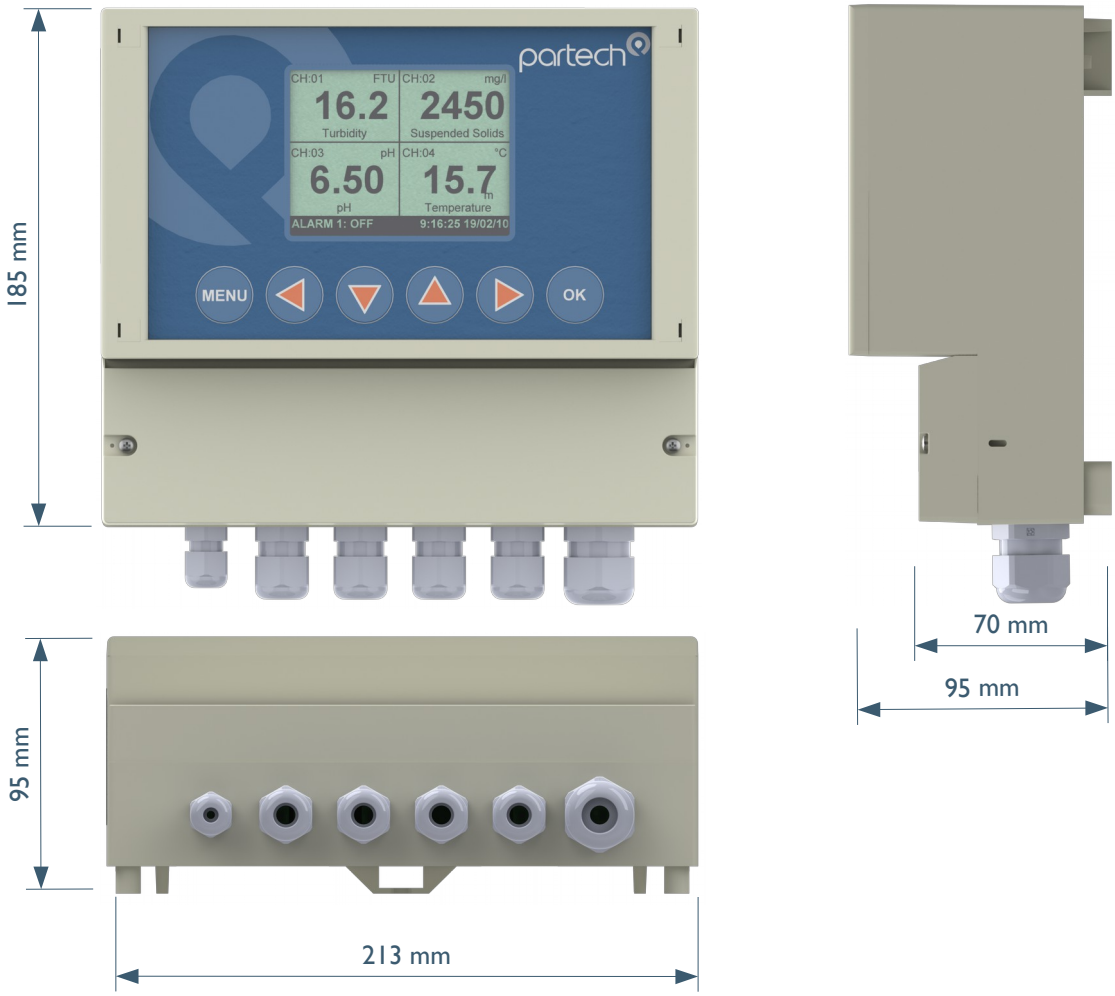

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7300w² Monitor

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PRODUCT SPECIFICATION

Physical	
Dimensions	213 x 185 x 95 mm (HxWxD)
Weight	1.4 kg
Protection Class	IP65
Enclosure Material	Polycarbonate (PC)
Cable Entries	1 x M20, 4 x M16, 1 x M12
Cable Size	Core Size 2.5mm²
Environmental Data	
Operating Temperature	-20 to 70°C, 0 to 95% Relative Humidity, Non-Condensing
Storage Temperature	
Location	Indoor/Outdoor
Electrical	
Power Supply	100 to 240 VAC, 50/60 Hz or 10-30 VDC
Power Rating	30W - If more than 2 sensors are to be used, then an external higher rated power supply may be necessary
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	Max 2A @30VDC/230VAC
Digital Communications	Profibus DP, alternative protocols available on request
Auxiliary Connections	Configurable for Remote Input, Device Power
Sensor Interface	
Digital Communications	ModTechw² – Rs485
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
Mounting	
Handrail mounting plate	PN223974
Mounting Plate with Isolator	PN223975
Outer Enclosure with Isolator	PN223976

Order Codes

Part No	Description
223160	7300w² Monitor (90-264VAC, 2 x 0/4-20mA Output, 3 x Relay Outputs)
223161	7300w² Monitor (9-30VDC, 2 x 0/4-20mA Output, 3 x Relay Outputs)

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

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