



7300w²™ Monitor

Monitor for the WaterWatch² Range

PRODUCT DATASHEET

KEY FEATURES

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

COMPATIBLE 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



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 starting specification provides all the connections required for 1 or 2 sensors and 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 intuitive.

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Distributed By:

Fluidquip Australia

Ph: 03 8795 7711

E: Fluidquip@fluidquip.com.au

W: www.fluidquip.com.au

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The 7300w²™ Monitor has been designed to make our customers 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.



WaterWatch²™ Range

The WaterWatch²™ 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 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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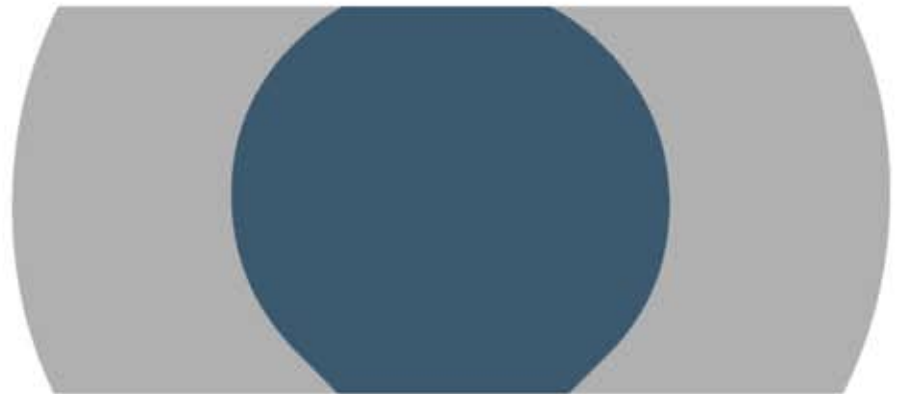
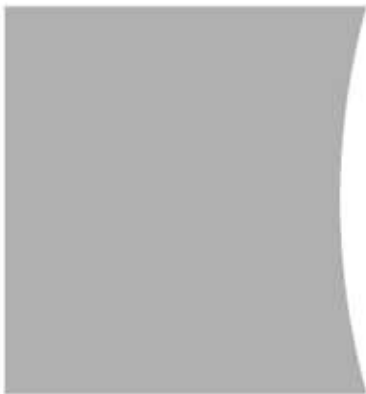
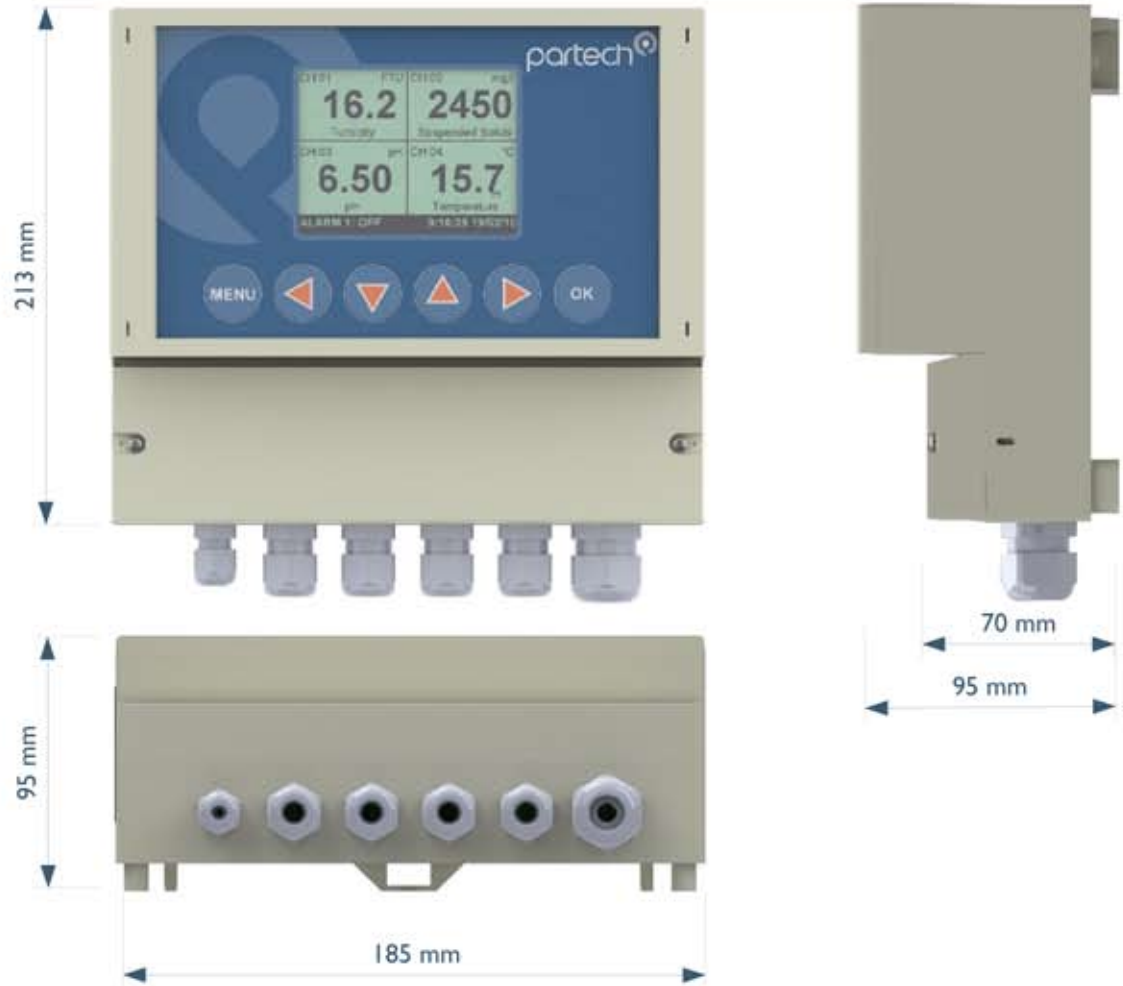
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PRODUCT SPECIFICATION

Electrical

Power

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

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

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
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)

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

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