7300w² Monitor

Monitor for the WaterWatch² Range

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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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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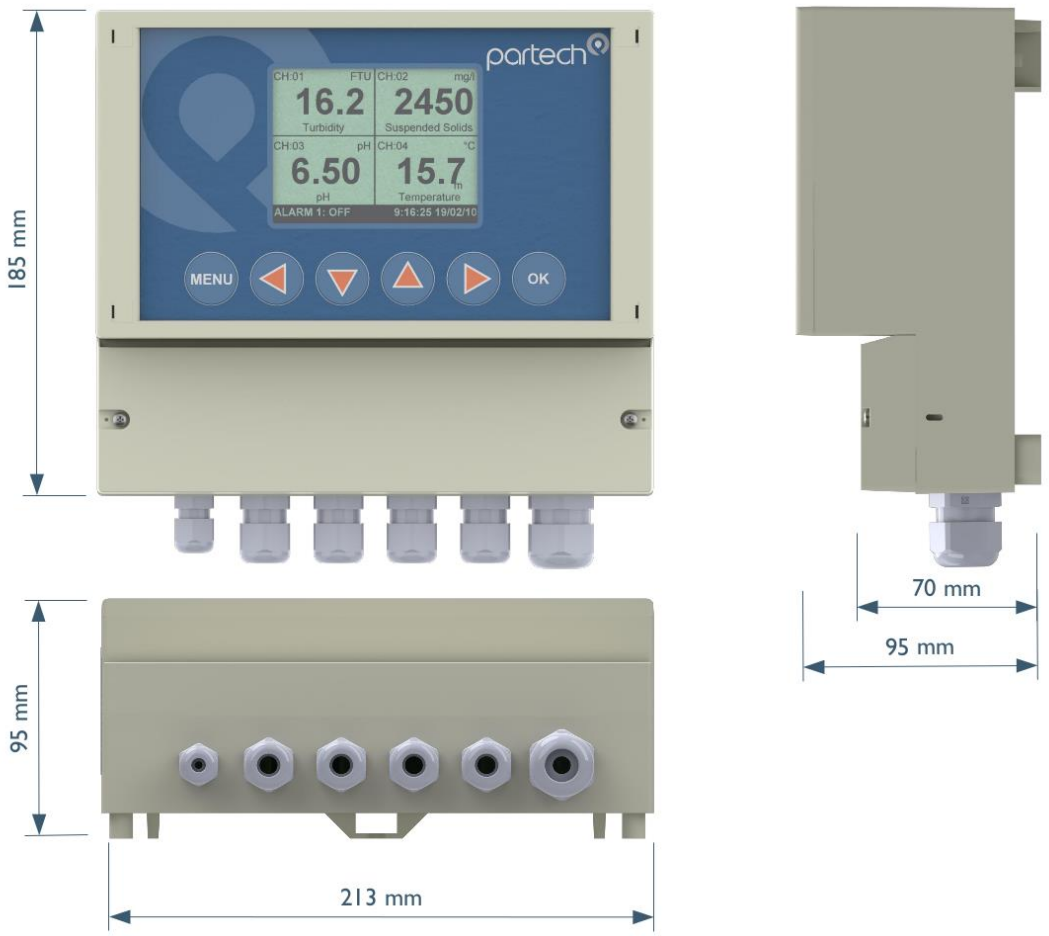

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Physical	
Dimensions	213 x 185 x 95 mm (HxWxD)
Weight	1.4 kg
Protection Class	IP65
Enclosure Material	Polycarbonate (PC)
Cable Entries	1 x M20, 4 x M16, 1 x M12
Cable Size	Core Size 2.5mm²
Environmental Data	
Operating Temperature	-20 to 70°C, 0 to 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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COMPACT SAMPLER SP5

Fixed site sampler in plastic housing, especially suited for high ambient temperatures. For automatic sample extraction according to the vacuum principle. Mains operation 230V/50Hz.

Type:	fixed site sampler
Housing:	PE with 50 mm insulation/PS/PC (GF10)
Thermostatic control:	self-contained, controlled cooling/heating with 4 settings, no-frost. Temperature in sample compartment: 4° C (adjustable from 0,0–9,9° C)
Control:	microprocessor control, foil keyboard (128 x 64 Pixel), back lit
Data logger:	3000 entries, nonvolatile data memory; expandable to 32GB
Programming:	12 freely programmable user programs, with function to link programs.
Interface:	Mini-USB, RS422/485, RS 232; optional: Ethernet RJ45
Communication:	optional in combination with PC software, LAN/WLAN TCP/IP
Languages:	multi-language, selectable
Signal inputs:	2 x analogue: 0/4-20 mA, 8 x digital (flow, event, 1 inputs can be programmed freely) option: expandable with 4x digital, 3 inputs can be programmed freely, and 8x analogue 0–20 mA or 0–10 V, Impuls length 60ms, switching level 7–24 V, max. working restistance 500 Ohm, max. length of signalcable 30 m
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message option: expandable with 8 digital, 5 are freely programmable
Sampling method:	vacuum system 20–350 ml option: vacuum VAR flow-proportional system 5–250 ml option: peristaltic pump
Suction height:	max. 5 m (at 1.013 hPa and stagnant medium), optional 8,5 m
Pumping speed:	> 0,5 m/s at suction height up to at least 6 m (at 1.013 hPa); pump capacity can be adjusted electronically
Suction hose:	PVC, L =5 m, ID = 10 mm (max. hose length 30 m.)
Sampling modes:	time, flow-dependent, event-related and manual sample extraction. option: flow-proportional
Bottle variants:	plastic: 1 x 25 L; 4 x 14 L; 4 x 10 L;12 x 2,9 L; 24 x 1 L; 24 x 1 L glass: 12 x 2 L; 24 x 1L
Overall dimensions:	(hxwxd) 1.100 (1.640 with opened top) x 760 x 775 mm
Weight:	approx. 75 kg with composite container, higher weight when using several bottles and/or glass bottles
Power supply:	230 V/115 V/AC
Power requirement:	approx. 350 VA (with cooling)
Ambient temperature:	-20°–45° C
Sample temperature:	0°–40° C
Standards:	CE; sampling according to ISO 5667-2/3-10

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