WaterWatch2300 Monitor – Turbidity Suspended Solids

Partech Instruments is a specialist company providing analysers and instruments for monitoring and control in; wastewater, raw water, industrial effluent and surface water applications.

Whatever the application and whatever the location, Partech will supply an effective and efficient service and a support package tailored to suit the customer

The WaterWatch2300 Monitor combines with the WaterWatch2300 series of Turbidity and Suspended Solids sensors to give a cost-effective solution to the measurement of those parameters. The WaterWatch Turbidity and Suspended Solids sensors provide an extremely stable zero point due to the mechanical design of the flowcell. This coupled with the dry calibration standards that are available make the system cost effective and reliable.

The monitor provides a large character LED display of the measured value, as well as a 2 line LCD configuration and operation display. An option is the addition of a datalogging module that allow the user to record data for analysis or reporting purposes. This includes a data card allowing the user to take the data to a PC rather than taking the PC into the field where damage can easily occur.

The field mount enclosure is IP65 rated for outdoor installation, additional outer enclosures are available for harsh environments if necessary.

By using the WaterWatch range of Turbidity and Suspended Solids monitoring systems operators can be sure that the data being provided is accurate and reliable. The Solid Reference Cells make verification of the system quick and easy to carryout, avoiding the need for wet calibration solutions.

The WaterWatch2300 Monitor has been specifically designed for ease of use and operation. The menu structure is intuitive and can normally be operated with minimum reference to the instruction manual.

The monitor will operate from a variety of power supplies, the standard unit requires 115 or 230 VAC which is field selectable, there are also options for 12 or 24 VDC.

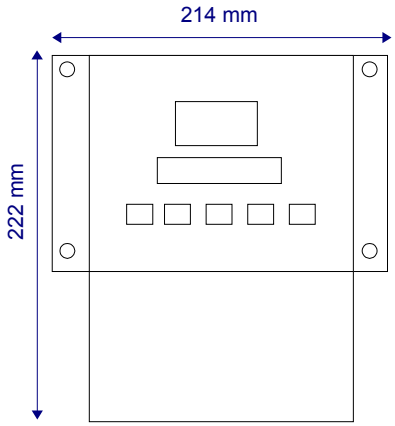
An analogue output signal is provided, as well as two relays for high/low process alarms or fault recognition. There is an additional option of an RS232 communications link that can be used for connection to data loggers and other suitable interface devices.

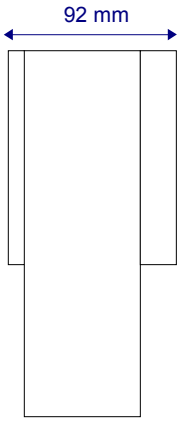
The diagnostics section of the menu allows the user to verify operation of the system and review the need for sensor servicing.

Associated Products

- WaterWatch2310 Turbidity Flowcell Sensor
- WaterWatch2320 Suspended Solids – Flowcell Sensor
- WaterWatch2330 Suspended Solids – Dip Sensor
- Solid Reference Cells

WaterWatch2300 Monitor – Turbidity Suspended Solids





Part Numbers

200860 WaterWatch2300 Monitor Turbidity/SS

200870 WaterWatch2300 Monitor Turbidity/SS with datalogging

Publication No: 203080 Rev 1

Physical	
Weight	2 kg (2.5 kg with datalogging option)
Dimensions (h x w x d)	222 x 214 x 92 mm
	222 x 310 x 180 mm with datalogging
Enclosure Rating	IP65 (IP55 with datalogging)
Enclosure Material	ABS
Cable Entries	5 x M13 and 1 x M20
Cable Size	Max Conductor Cross Section 4.0 mm^2
Environmental Data	
Operating Temperature	0 to 60°C
Storage Temperature	-20 to 60°C
Location	Indoor or Outdoor
Power Supply	
Voltage	115/230 VAC +10/-15% Field Selectable, 12/24 DC option
Power Consumption	11W
Analog Output	
Number	1
Type	4-20 mA, Isolated
Max Load Resistance	750 Ω
Relay Outputs and Set Points	
No	2
Contacts	SPCO
Rating	5A @ 230 VAC, 5A@125 VDC
Type	High, Low or Fault
Adjustment	0-100% Sensor Range
Serial Communications	
RS232	Yes
Modbus	Pending
Profibus	Pending
User Interface	
Display	4 Digit Red LED display for Process Variable
	2 Line LCD Display for Configuration and Operation
Setup	via 5 Button Membrane Keypad
Units of Measurement	mg/l, g/l, ppm, NTU, FTU, %SS, User Defined
Datalogging Option	
Capacity	Data Cards available for 64KB to 1 MB, 256 KB will give 4 weeks recording of data at 15 minute intervals
Card Format	PCMCIA Card (reader supplied with system)
Mounting	
Type	Surface
Approvals	
EMC Standard	EN50082-1 (1994) Residential, Commercial, Light Industry
EMC Directive	89/336/EEC
Low Voltage Directive	73/23/EEC

PARTECH instruments

Partech (Electronics) Ltd
111/113 Charlestown Road
Charlestown, St Austell
Cornwall, PL25 3NN UK

Tel: +44 (0) 1726 879800
Fax: +44 (0) 1726 879801
Email: info@partech.co.uk
Web: www.partech.co.uk