



WaterWatch2100

pH Monitoring System

PRODUCT DATASHEET

APPLICATIONS

- Raw Sewage
- Final Effluent
- Final Water Monitoring
- Intake Protection
- Process Control

MEASUREMENT PRINCIPLE

Ceramic Junction Combined pH Electrode

FEATURES

- Dip or Flowcell Mounting
- 4-20 mA Output
- On/Off and Proportional Control
- Large Digit LED Display

ACCESSORIES

- Dip Sensor Assembly
- Flow Cell

MOUNTING OPTIONS

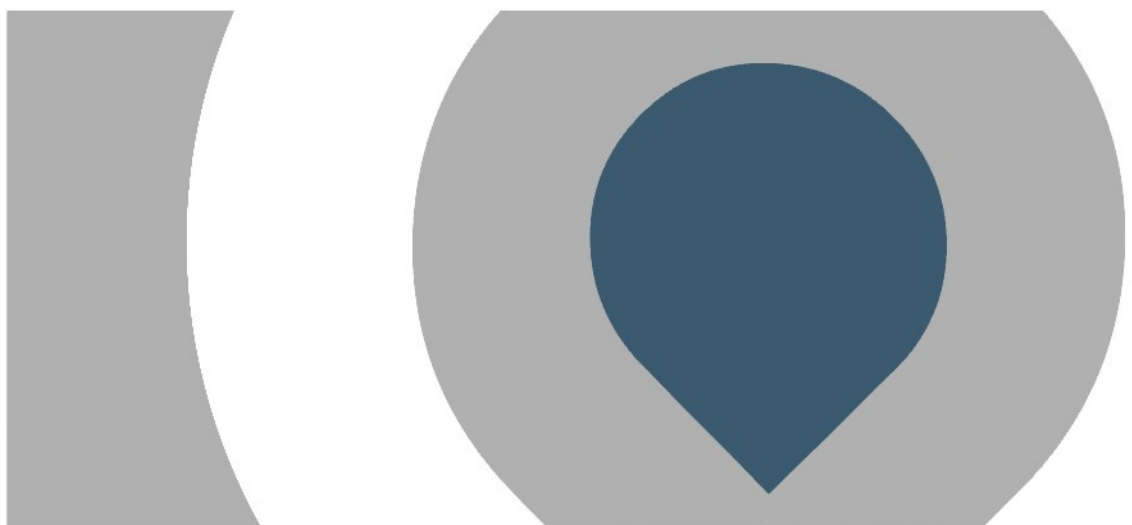
- Backing Panel
- Protective Outer Enclosure



The WaterWatch2100 Monitor combines with the WaterWatch2100 range of pH electrodes and electrode assemblies to provide an accurate and reliable measurement solution for a wide variety of applications including low conductivity water. The electrodes can be housed in dip and flowcell assemblies to make installation as flexible as possible.

The monitor provides a large character LED display of the measured value, that is clearly visible as well as a 2 line LCD for configuration. The field mount enclosure is IP65 rated and is suitable for indoor and outdoor wall installation. Partech can provide the monitor and sensor backboard mounted or in an outer enclosure if desired, this makes installation quick and efficient. The monitor provides the user interface for all calibration and maintenance function and provide a 4-20 mA output signal supplemented by 2 relays that can be used as high, low or fault alarms.

Electrode and sensor selection is critical to successful pH monitoring, Partech's experienced team of sales and service engineers are available to help choose the correct one for your application.



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

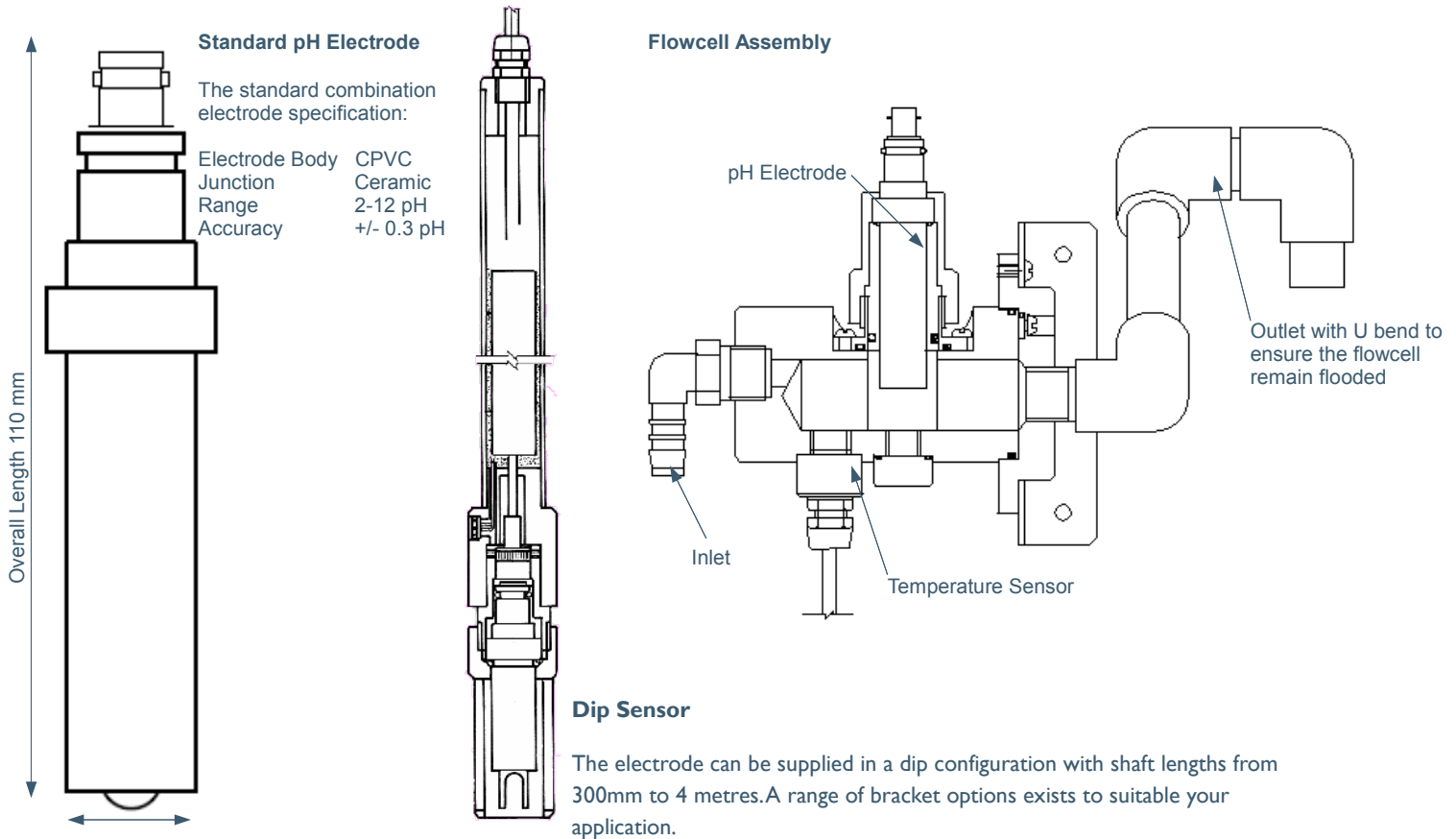




WaterWatch2120 Electrode

pH Electrode and Flowcells

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ALTERNATIVE ELECTRODES

The WaterWatch2100 Monitor is suitable for operation with the vast majority of pH electrodes that are available and Partech believe that selection of the correct electrode is vital for successful pH monitoring. The electrode illustrated above is the standard one supplied and is suitable for most applications in water, wastewater, industrial effluent and surface water monitoring. Other options include a special flowcell assembly for monitoring pH in low conductivity water.

Please contact Partech to discuss your application.

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WaterWatch2100 Monitor

pH Monitor

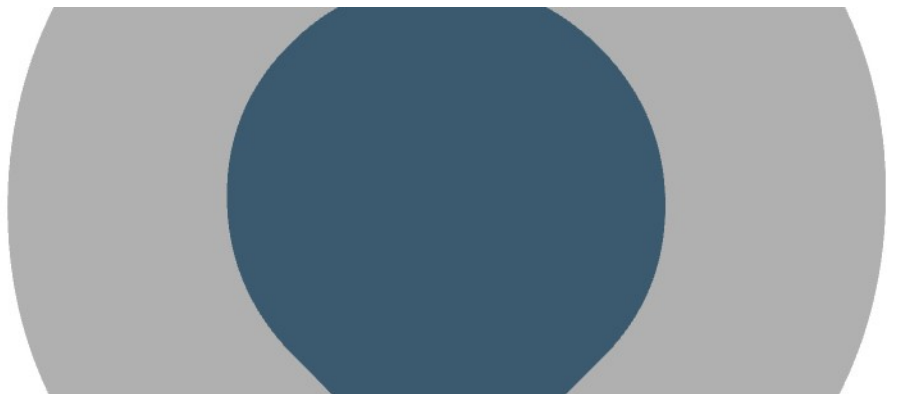
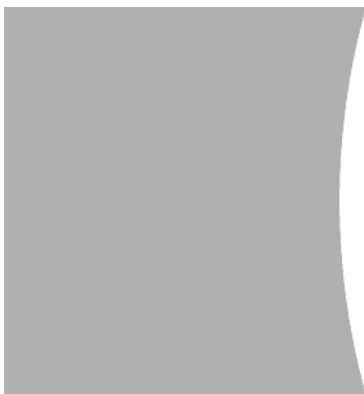
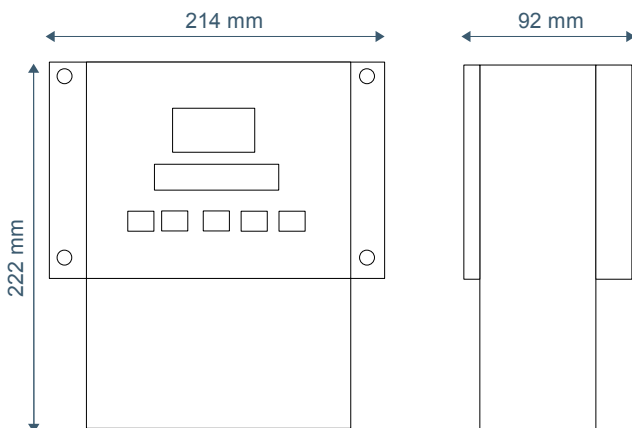
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Dual Display

The WatchWatch2100 Monitor provides a clear large digit LED display of the Turbidity value. This display can clearly be seen when approaching the monitor giving immediate confidence in the reading.

Ease of Operation

The monitor is a fully featured micro-process controlled device that is easy to operate. All the setup and maintenance information is available on the second LCD display.



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Measurement

Principle	Combination Electrode with Ceramic Junction
Range	2-12 pH
Resolution	+/- 0.2 pH
Response Time	90% step change in 2 minutes at 1 l/min flowrate
Flowrate	0.5 to 5 l/min
Sample Pressure	3 Bar

Physical

Dimensions (hxwxh)	Monitor 222 x 214 x 92 mm
Enclosure Rating	Monitor IP65
Enclosure Material	Monitor ABS
Seal Material	Nitrile
Sensor Process connections	Inlet and Outlet: 1/2" BSP with 12mm Hosetail
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 60°C
Location	Indoor or Outdoor

Electrical

Voltage	115/230 VAC +10/-15% Field Selectable, 12/24 DC option
Power Consumption	11W
Cable Entries	5 x M13 and 1 x M20
Cable Size	Max Conductor Cross Section 4.0 mm ²

Output

Type	4-20 mA, Isolated
Max Load Resistance	750 Ω
Relays	2
Contacts	SPCO
Rating	5A @ 230 VAC, 5A@125 VDC
Type	High, Low or Fault
Adjustment	0-100% Sensor Range

User Interface

Display	4 Digit Red LED display for Process Variable 2 Line LCD Display for Configuration and Operation via 5 Button Membrane Keypad
Setup	
Units of Measurement	pH

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