



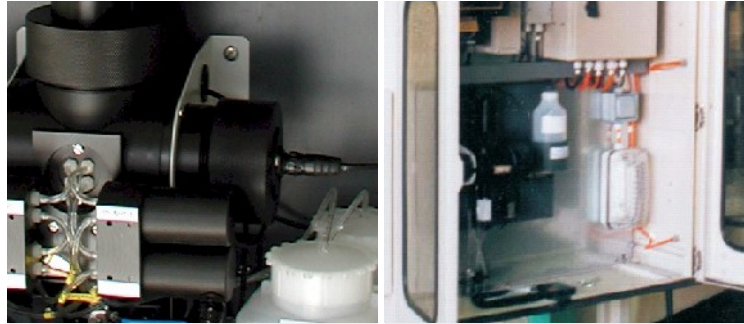
WaterWatch2500

Free and Total Chlorine Analyser

PRODUCT DATASHEET

FEATURES

Cooling Water Discharge Monitoring
Treated Water Monitoring
Standard Range 0.00 - 3.00 mg/l
Chlorine(extendable to 5.00 mg/l)
Free or Total Chlorine options
Reagent use Optimisation
Selectable Measurement Frequency
Precision Micro Pumps
Loss of Sample Detection



The **WaterWatch2500** Analysers use the well established colorimetric DPD method for measuring chlorine in water. Specially designed to operate in both clean and dirty water environments. The large bore flow cell will tolerate suspended solids up to 50 mg/l without pre-filtration. The unique cleaning and stirring system keeps the cell optics free from fouling and ensures that the chemicals are properly mixed. A blank check is taken before each reading. Combined with the advanced microprocessor monitor/controller all the functions associated with the analyser are managed from a simple membrane keypad. Seawater discharges treated to prevent fouling may also be monitored. Measuring close to zero allows discharge consents to be checked.

Cooling water discharges and final treated water can be monitored for the correct level of Residual Chlorine using this online colorimetric analyser. No Pre-filtration is required and calibration can be carried out with the minimum of training. Automatic self cleaning is integral to the measurement cell.

The **WaterWatch2520** version of this analyser provides the option of measuring Total Chlorine rather than just Free Chlorine. This entails the addition of a second reagent (Potassium Iodide) to liberate the combined Chlorine to enable measurement of Total Chlorine. The batch measurement method allows the free and total chlorine levels to be measured sequentially.

Restriction Free Flow Cell

Derived from the well proven turbidity range the sample flow is not restricted as it passes through the cell. During the measurement cycle the flow is diverted to drain.

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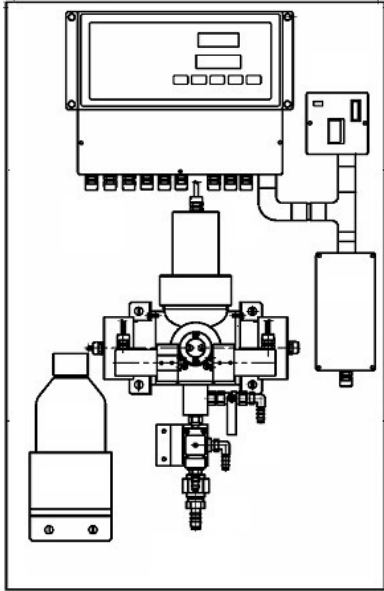




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Part Numbers

- 201420 WaterWatch2510 Free Chlorine Analyser
201430 WaterWatch2520 Free and Total Chlorine Analyser

Publication No: I84440DS-Iss04
The company reserves the right to alter the specification without prior notice. E&OE

Physical

Weight	25 kg
Dimensions (h x w x d)	Panel – 800 x 520 x 190 mm
Panel Material	PVC
Enclosure Rating	IP67
Enclosure Material	ABS
Cable Entries	4 x PG 11 (2 factory fitted, 2 supplied separately)
Terminals	Max Conductor cross section 2.5 mm ²
Wetted Parts	Polypropylene, Black Acetal Co-Polymer, Glass

Environmental Data

Operating Temperature	0 to 50°C
Storage Temperature	-20 to 60°C – must be stored dry if freezing is possible
Location	Indoor or within a protective enclosure or kiosk

Power Supply

Voltage	115/230 VAC, 50/60 Hz, +10/-15% (Voltage Selector)
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Outputs

Number	1
Type	4-20 mA
Max Load Resistance	750 ohms
No	3, SPCO, 5A @ 230 VAC, 5A @ 125 VDC

Measurement Details

Accuracy	+/- 0.02 mg/l
Measurement Principle	Colorimetric
Method	DPD (N,N-diethyl-phenylenediamine)
Flow Rate	recommended 200-500 ml/min, 1 l/min maximum
Maximum Range	0- 3 mg/l, can be extended to 0-5 mg/l with high reagent usage

Serial Communications

RS232	Yes
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User Interface

Display	4 Digit LED display for Process variable 2 Line LCD display for Configuration and Operation via 5 Button Keypad
Setup	mg/l
Units of Measurement	

Mounting

Type	Wall, supplied on PVC backing panel
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