



# ColTechw<sup>2</sup> Sensor

## Colour Sensor

PRODUCT DATASHEET

### APPLICATIONS

Raw Water  
Filtered Water  
Filter Backwash Control  
Clarifier Supernatant  
Process Control

### MEASUREMENT PRINCIPLE

Blue Light Attenuation  
460 nm  
Apparent Colour

### FEATURES

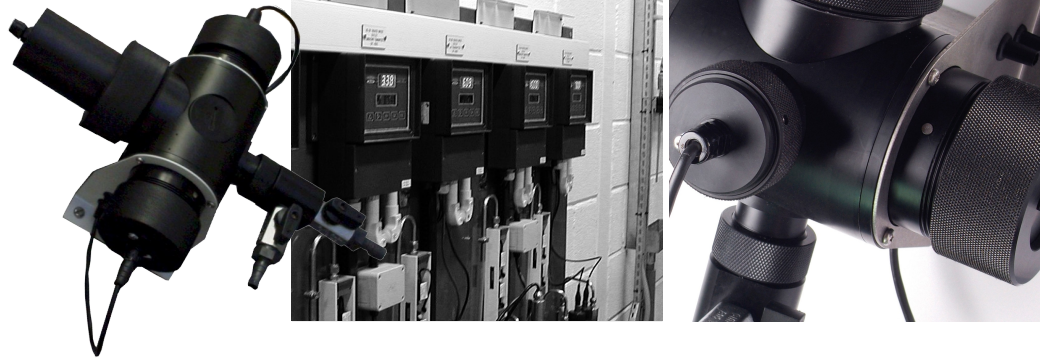
Auto-Clean Sensor

### ACCESSORIES

De-Bubbler  
Sample Detection

### COMPATIBLE MONITOR

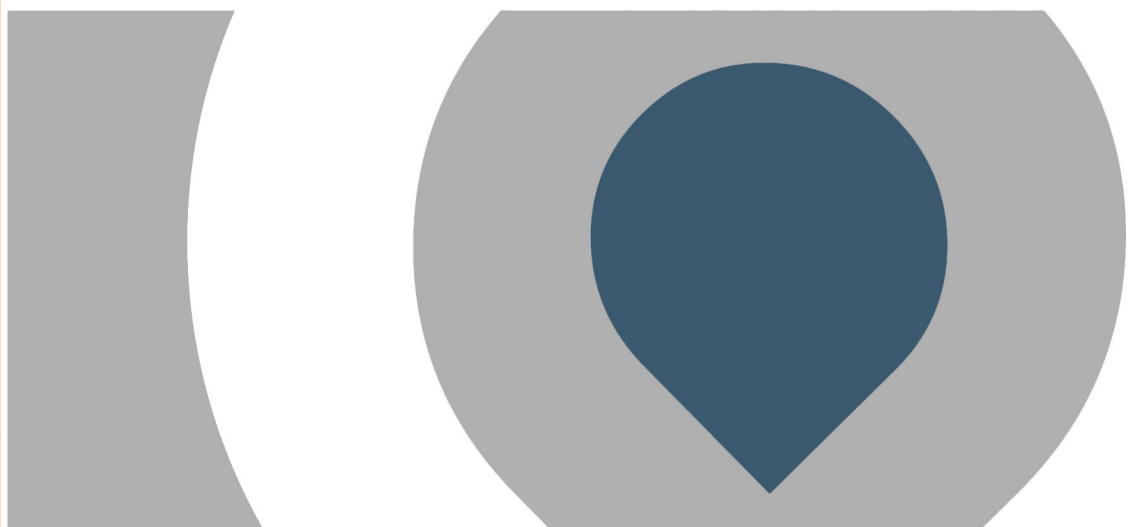
7300w<sup>2</sup> Monitor



The ColTechw<sup>2</sup> Sensor has been specifically designed to monitor Apparent Colour in applications where a broad indication of the colour of the water is required. Organic materials such as Humic Acid or Iron and Manganese dissolved in water will appear as an unacceptable yellow tinge. If discoloured water is allowed to enter the water supply network customers will quickly become aware of the problem.

Measurement of colour is therefore an important element of potable water treatment control, the ColTechw<sup>2</sup> Sensor in combination with the 7300w<sup>2</sup> Monitor will provide a reliable, repeatable indication of colour levels allowing online adjustment of coagulation control packages. A high residual colour reading is a clear indicator of a coagulation control system that is not functioning correctly, by making adjustments significant savings can be made in usage of dosing chemicals.

The sensor requires very little maintenance, with no special tools or training required. Calibration can be carried out against either a wet Turbidity standard or using the dry calibration reference cell that is supplied with every sensor. The reference cell provide an extremely easy, repeatable method of checking the performance of the sensor without the cost and inherent errors associated with chemical standards.



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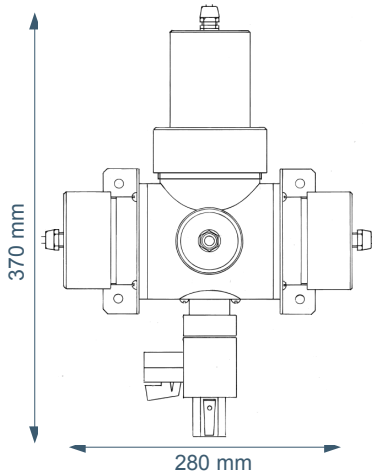




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### Physical

Weight  
Dimensions  
Enclosure Rating  
Enclosure Material  
Cable Entries  
Wetted Parts  
Process Connections

Seal Material  
Cable Type  
Cable Length  
Service Requirement

### Environmental Data

Operating Temperature  
Storage Temperature  
Location

### Power Supply

Voltage

### Interface to Monitor

Type

### Measurement

Accuracy  
Resolution  
Repeatability  
Light Source  
Optical Path Length  
Response Time  
Pressure Rating (Depth)  
Flow Rate  
Range

### Mounting

Installation Type

4.5 kg (inc 10 metres of cable)  
370 x 280 x 200 mm (HxWxD)  
IP68  
Black Acetal Co-Polymer  
Integral Cable Gland  
Black Acetal, 316 Stainless Steel, Glass  
Inlet and Bypass: 1/2" BSP with 12 mm Hosetail  
Outlet: 1/4" BSP with 8 mm Hosetail  
Nitrile  
4 Core, 2 Twisted Pair, 5mm O/D Polyurethane Coated  
10 metres standard, 100 metres maximum  
Automatic Self Cleaning  
Wiper and Desiccant Replacement Yearly (application dependent)

0 to 50°C  
-20 to 60°C  
Indoor/Outdoor

12 VDC from 7300w<sup>2</sup> Monitor

RS485

Better than +/-2% FSD on real sample  
+/-1% FSD or better  
Better than +/-1% FSD on real sample  
Blue LED, 460 nm  
40 mm  
90% of step change in 2 minutes at 1 l/min  
1 Bar  
0.5 l/min to 5 l/min  
0 – 200 °Hazen

Wall or Surface

### Order Codes

Part No	Description
223910	ColTechw <sup>2</sup> Sensor (Range: 0-200 °Hazen, Cable Length: 2 metres)
223911	ColTechw <sup>2</sup> Sensor (Range: 0-200 °Hazen, Cable Length: 5 metres)

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

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