



ColTechw² 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

7300w² Monitor



The ColTechw² 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 ColTechw² Sensor in combination with the 7300w² 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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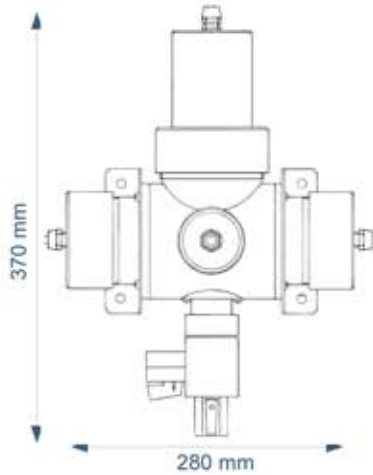




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Physical

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 7300w² 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 ² Sensor (Range: 0-200 °Hazen, Cable Length: 2 metres)
223911	ColTechw ² Sensor (Range: 0-200 °Hazen, Cable Length: 5 metres)

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