



ColTechw² Sensor

Colour Sensor

PRODUCT DATASHEET

APPLICATIONS

- Raw Water
- Filtered Water
- Filter Backwash Control
- Clarifier Supernatant
- Process Control

MEASUREMENT PRINCIPLE

- Blue Light Attenuation
- 370 nm
- Apparent Colour

FEATURES

- Auto-Clean Sensor

ACCESSORIES

- De-Bubbler

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 metals like 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, and will allow the process to be optimised enabling significant savings to be made in usage of dosing chemicals.

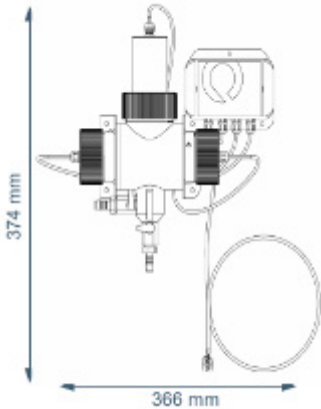
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PRODUCT SPECIFICATION



Physical

Dimensions
Weight
Protection Class
Enclosure Material
Cable Entries
Wetted Parts
Process Connections

Seal Material
Cable Type
Cable Length
Service Requirement

370 mm x 280 mm x 200 mm (H x W x D)
4.5 kg (inc 10 metres of cable)
IP65
Black Acetal Co-Polymer
Integral Cable Gland
Black Acetal, 316 Stainless Steel, Glass
Inlet and Bypass: ½" BSP with 12 mm Hosetail
Outlet: ¼" BSP with 8 mm Hosetail
Nitrile
4 Core, 2 Twisted Pair, 5 mm O/D Polyurethane Coated
5 metres standard, 100 metres maximum
Automatic Self Cleaning
Wiper Replacement Yearly (application dependent)

Environment Data

Operating Temperature

0 to 50°C

Interface to Monitor

Power Supply
Sensor Output

12 VDC from 7300w² Monitor
ModTechw², RS485

Measurement

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

0-200 °Hazen
Better than ±2%
±1% FSD or better
Better than ±1%
Light LED, 370 nm
100 NTU
40 mm
90% of step change in 2 minutes at 1 l/min
1 Bar
0.5 l/min to 5 l/min

Mounting

Installation Type
Mounting Option

Wall or Surface
See 224046DS for details

Order Codes

Part No Description

223911 ColTechw² 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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