



ColTechw² Colour Sensor

THE COLTECHw² COLOUR SENSOR IS SPECIFICALLY DESIGNED TO MONITOR APPARENT COLOUR IN APPLICATIONS THAT REQUIRE A BROAD INDICATION OF COLOUR. THE SELF-CLEANING SENSOR IS IDEALLY USED AT THE INTAKE STAGE OF DRINKING WATER PROCESSING AND ALLOWS AUTOMATIC COAGULANT CONTROL WITH NO NEED FOR COMPLEX ANALYZERS. THE INSTRUMENT CAN BE MOUNTED IN AN OUTDOOR LOCATION.

RELIABLE MONITORING

- The ColTechw² Colour Sensor can tolerate turbidity levels of up to 100NTU and has a maximum depth of 100 meters.
- The beam from the UV/Blue LED light source is passed through a sample of water contained in the measurement cell, the amount of light absorption at 375nm is measured. The absorption is equated to Hazen units by comparison to a standard solution during calibration, or by reference to a laboratory test method.

LOW COST OF OWNERSHIP

- The ColTechw² Colour Sensor is low maintenance and doesn't require special tools or training to use.
- Calibration against either a wet standard or using a reference standard.
- The flow cell type sensor includes an integral wiper cleaning system that requires replacement annually.

TOTAL FIELD SUPPORT

- Our team of experts provides outstanding customer service and technical support.



Applications:

- RAW WATER
- FILTERED WATER
- FILTER BACKWASH CONTROL
- CLARIFIER SUPERNATANT
- PROCESS CONTROL

GENERAL		ColTechw² Colour Sensor	
DIMENSIONS	370mm (14.5") x 280mm (11") x 200mm (7.8") (HxWxD)	CABLE TYPE	4 Core, 2 Twisted Pair, 5 mm O/D Polyurethane Coated
WEIGHT	3.9kg (8.5lbs) inc 5m of cable	CABLE LENGTH	5 metres standard, 100 metres maximum
PROTECTION CLASS	IP65	SERVICE REQUIREMENT	Automatic Self Cleaning Wiper Replacement Yearly (application dependent)
ENCLOSURE MATERIAL	Black Acetal Co-Polymer	OPERATING TEMPERATURE	0 to 50°C
CABLE ENTRIES	Integral Cable Gland	POWER SUPPLY	12 VDC from 7300w ² Monitor
WETTED PARTS	Black Acetal, 316 Stainless Steel, Glass	SENSOR OUTPUT	ModTechw ² , RS485
PROCESS CONNECTIONS	Inlet and Bypass: ½" BSP with 12 mm Hosetail Outlet: ¼" BSP with 8 mm Hosetail	INSTALLATION TYPE	Wall or Surface
SEAL MATERIAL	Nitrile	MOUNTING OPTIONS	See 224046DS for details
MEASUREMENT			
RANGE	0-200 °Hazen	TURBIDITY LIMIT	100 NTU
ACCURACY	Better than ±2%	OPTICAL PATH LENGTH	40 mm
RESOLUTION	±1% FSD or better	SENSOR RESPONSE TIME	90% of step change in 3 seconds
REPEATABILITY	Better than ±1%	PRESSURE RATING (DEPTH)	1 Bar
LIGHT SOURCE	Light LED, 370 nm	FLOW RATE	0.5 l/min to 5 l/min
Warranty	2 Years		