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ColTech Color Sensor

THE COLTECH COLOR SENSOR IS SPECIFICALLY DESIGNED TO MONITOR APPARENT COLOR IN APPLICATIONS THAT REQUIRE A BROAD INDICATION OF COLOR. 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 ColTech Color 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 and the amount of light absorption at 375 nm 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 ColTech Color 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.

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Applications:
- **RAW WATER**
- **FILTERED WATER**
- **FILTER BACKWASH CONTROL**
- **CLARIFIER SUPERNATANT**
- **PROCESS CONTROL**

GENERAL	ColTech Color Sensor		CABLE TYPE	4 Core, 2 Twisted Pair, 5 mm (.20 in) O/D Polyurethane Coated
DIMENSIONS	370 mm (14.5 in) x 280 mm (11 in) x 200 mm (7.8 in) (HxWxD)		CABLE LENGTH	5 m (16.4 ft) standard, 100 m (328 ft) maximum
WEIGHT	3.9 kg (8.5 lbs) inc 5m (16 ft) of cable		SERVICE REQUIREMENT	Automatic Self Cleaning Wiper Replacement Yearly (application dependent)
PROTECTION CLASS	IP65		OPERATING TEMPERATURE	0 to 50°C (32 to 122°F)
ENCLOSURE MATERIAL	Black Acetal Co-Polymer		POWER SUPPLY	12 VDC from 7300 Monitor
CABLE ENTRIES	Integral Cable Gland		SENSOR OUTPUT	ModTech, RS485
WETTED PARTS	Black Acetal, 316 Stainless Steel, Glass		INSTALLATION TYPE	Wall or Surface
PROCESS CONNECTIONS	Inlet and Bypass: ½ in BSP with 12 mm (0.47 in) Hosetail Outlet: ¼ in BSP with 8 mm (0.31 in) Hosetail		MOUNTING OPTIONS	See 224046DS for details
SEAL MATERIAL	Nitrile			
MEASUREMENT				
RANGE	0-200° Hazen		TURBIDITY LIMIT	100 NTU
ACCURACY	Better than ±2%		OPTICAL PATH LENGTH	40 mm (1.57 in)
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			

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