



The Signet 4632 Chlorine Dioxide Analyzer System is an integrated all-in-one system designed to measure Chlorine dioxide residual up to 2 ppm/mg/l.

The unique integrated clear flow cell combines sensors, flow regulator, filter and variable area flow indicator in one compact unit. An integrated flow regulator with removable filter accepts inlet pressures of 1 to 8 bar (15 to 120 psi), while maintaining constant flow and minimal pressure to the sensors.

Water flows vertically into sensor tip eliminating bubble entrapment. The flow cell is designed to maintain a minimum amount of water to ensure sensors stay submerged, even when the system and flow is turned off.

The Signet 4630 Chlorine Analyzer System allows quick setup and easy installation and is supplied with a 100-240 VAC power supply, two 4 to 20 mA outputs and two dry contact mechanical relays.

Features

- Reagent free measuring
- Complete panel system allows for quick and easy installation
- Built-in flow regulator maintains constant flow and pressure to the sensors regardless of inlet pressure
- Pre-wired panel includes a 100/240 VAC power supply, two 4 to 20 mA outputs and two mechanical relays



Applications

Residual Chlorine Monitoring:

- Cooling Towers
- Fruit and Vegetable Washing
- Water Distribution
- Wastewater Odor Control
- Poultry and Meat Processing
- UPW Treatment
- Hospital and Healthcare Facilities

U.S. Patent No: 8,336,375 B2

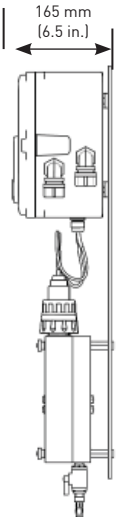
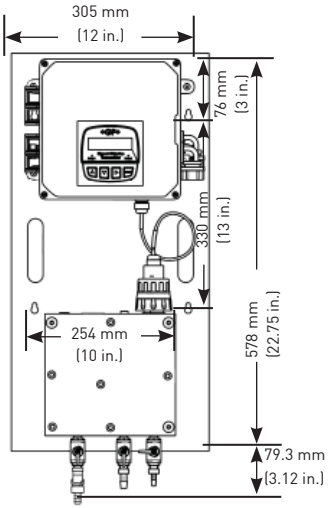


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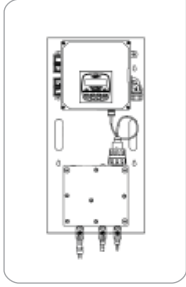
Specifications

General		
Compatible	3-2632-1 Chlorine Dioxide Electrode, 0 to 2 ppm / 3-2650-7 Amperometric Electronics	
Materials		
Panel	Black Acrylic	
Flow Cell	Acrylic	
Wiring Enclosure	Polycarbonate	
Wetted Materials		
Flow Cell, Spacer Rings	Acrylic	
Flow Regulator Housing	Polycarbonate	
Strainer, E-clip, Regulator Spring, Float	Stainless Steel	
Valves, Vent	Polypropylene	
Flow Cell O-rings, Diaphragm	EPDM, FKM	
Chlorine Electrode	PVC, PVDF, FPM	
pH electrode	PPS, Glass, UHMW PE, FPM	
Sealing Tape on Valves, Plug and Vent	PTFE	
Plug	Polyethylene	
Max. Temperature/Pressure Rating		
System Inlet Pressure Rating	1 to 8 bar	15 to 120 psi
Pressure Regulator	< 0.69 bar (10 psi) variation over all ranges of flow and pressure	
Flow Tolerance	± 15% or rated specification above	
Flow Rate Limits	30.24 to 45.36 LPH	8 to 12 US gal/h
Storage Temperature	0 °C to 65 °C	32 °F to 149 °F
Operating Temperature	0 °C to 45 °C	32 °F to 113 °F
Electrical		
AC Input - Standard Configuration	100 to 240 VAC nominal 50 to 60 Hz, 0.17 A at 100 VAC	
DC Input - Optional Configuration	12 to 24 VDC ±10% regulated, 250 mA max.	
Environmental		
Relative Humidity	0 to 95%	
Maximum Altitude	2000 m (6,562 ft)	
Enclosure	NEMA 4X (with output wire glands sealed)	
Shipping Weight		
	10 kg	22 lb
Standards and Approvals		
	CE, UL, CUL, FCC	
	China RoHS	
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety	

Dimensions



Ordering Information



Mfr. Part No.	Code	Description
3-4632-10	159 001 768	Chlorine Dioxide panel, 0 to 2 ppm/mg/l, no pH sensor
3-4632-11	159 001 769	Chlorine Dioxide panel, 0 to 2 ppm/mg/l, with pH sensor

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-2632-1	159 001 767	Chlorine Dioxide electrode, 0 to 2 ppm (mg/L)
3-2650-7	159 001 670	Chlorine - Inline Amperometric Electronics, Digital (S ³ L), 4.6 m (15 ft) cable
3-2724-00	159 001 545	pH sensor, flat glass , PT1000 temp element, 3/4" MNPT
3-2750-7	159 001 671	pH - Inline Electronics, Digital (S ³ L) , 4.6 m (15 ft) cable
3-8630-3P	159 001 673	Panel mount chlorine and pH transmitter
3-4630.390	159 001 688	Rebuild kit: O-rings, boots, screws, 1 filter screen
3-4630.391	159 001 689	Pressure regulator with 1 spare filter screen
3-4630.392	159 001 690	Acrylic flow cell complete with all components and connections
3-2632.391	159 310 160	Chlorine Dioxide electrolyte, 30 mL
3-2632.398	159 310 165	Chlorine Dioxide maintenance kit - (2) electrolyte, (2) PTFE membranes, (2) Silicone Bands, and Polishing Paper
3-2630.394	159 310 164	Free Chlorine and Chlorine Dioxide Replacement PTFE membrane (1) (sensors sold after Nov 1, 2012)
7300-0024	159 001 693	VDC Power Supply