

Type 4632 Chlorine Dioxide Analyzer System



Product Description

The type 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 accommodates the Chlorine Dioxide and optional pH electrode, 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 4632 Chlorine Dioxide Analyzer System comes complete with everything needed to support chlorine monitoring for 1 full year of operation. Panel design allows quick and easy installation and comes complete with four 4 to 20 mA outputs, flow switch with relay interrupt, four binary inputs and two mechanical relays. The 9950-X can also be used with the optional 3-9950.395-M (159 001 905) Modbus Module.

Features

- Reagent free measuring
- Chemical Guard, prevents over dosing of oxidants chemicals
- Built-in flow switch
- Chlorine Dioxide and pH electrode performance data (optional pH)
- Automatic time stamp after successful calibration
- Customer enabled alarm feature for re-calibrate
- 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



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

Datasheet



The installation must be performed in accordance with the instruction manual.
The instruction manual is included with the product, see also online on
www.gfps.com/signet

Technical Details

General

Compatibility	3-2632-1 Chlorine Dioxide Electrode, 0.02 to 2 ppm
	3-2650-7 Amperometric Electronics
	3-2724-00 Flat pH Electrode, 0 to 14 pH (4632-13 only)
	3-2751-7 pH Sensor 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,	Stainless Steel
Regulator Spring, Float	
Valves, Vent	Polypropylene
Flow Cell O-rings, Diaphragm	EPR (EPDM), FKM
Chlorine Electrode	PVC, PTFE, FKM, Nylon, Silicone
pH electrode	PPS, Glass, UHMWPE, FKM
Flow Switch	Polypropylene
Sealing Tape on Valves,	PTFE
Plug and Vent	
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

DC Input (3-9950-3, standard)	24 VDC nominal (12 to 32 VDC ±10% regulated)
- Optional Configuration	

Environmental

Relative Humidity	0 to 95%
Maximum Altitude	4'000 m (13'123 ft)
Enclosure	NEMA 4X (with output wire glands sealed)

Shipping Weight

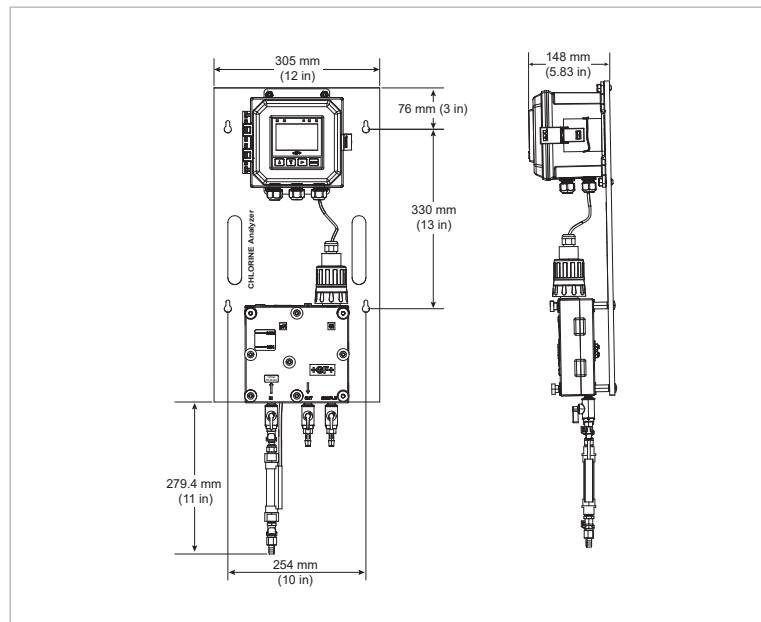
10 kg	22 lb
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Standards and Approvals

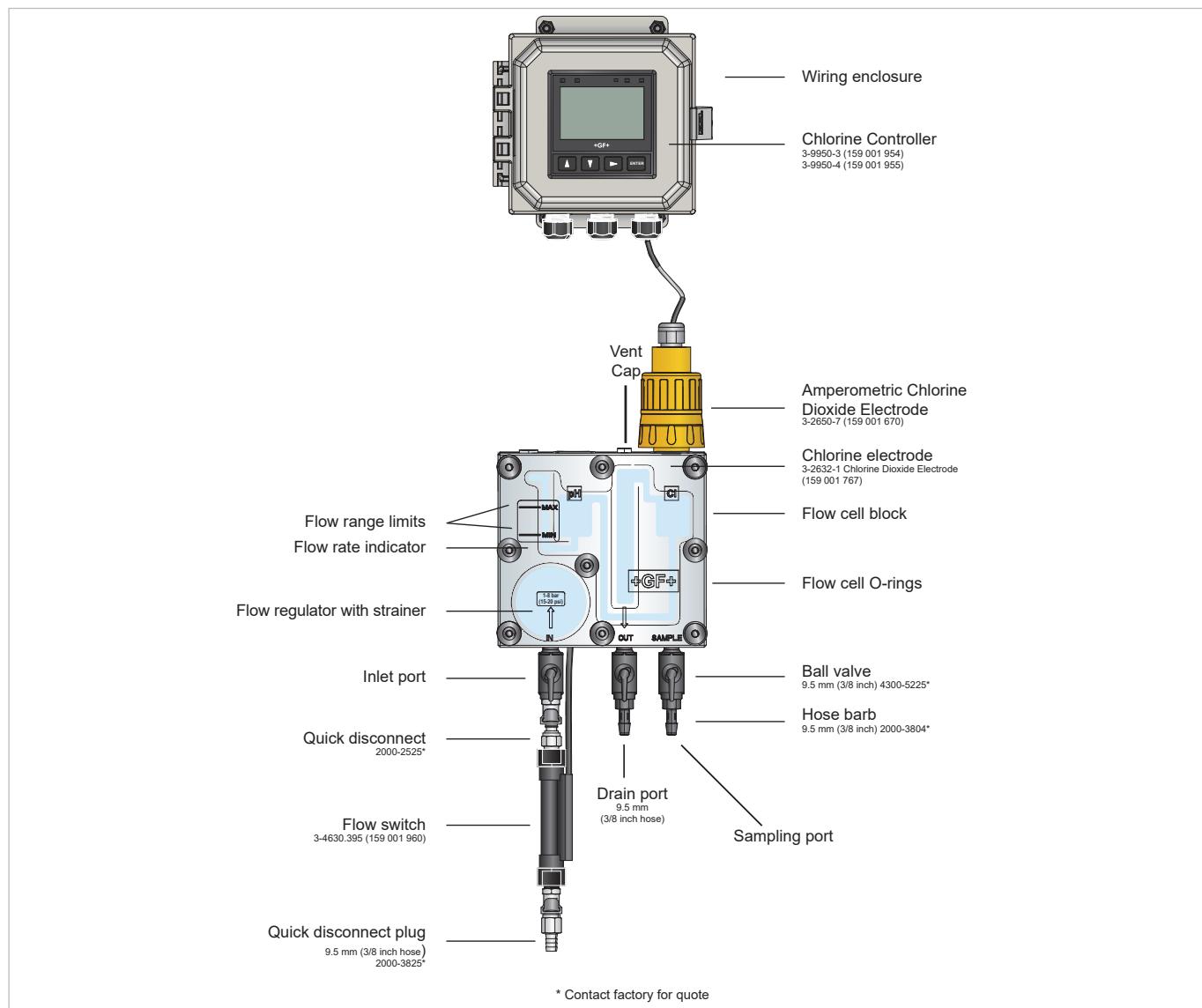
UKCA, CE, UL, CUL, FCC, WEEE
China RoHS
Manufactured under ISO 9001, ISO 14001, and ISO 45001

Datasheet

Dimensions

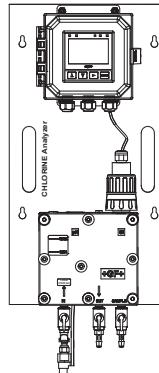


System overview



Ordering Information

Mfr. Part No. Code	Description
3-4632-12 159 001 952	Chlorine Dioxide Panel, free chlorine sensor (0.02 to 2 ppm), 12/24 VDC, no pH sensor
3-4632-13 159 001 958	Chlorine Dioxide Panel, free chlorine sensor (0.02 to 2 ppm), 12/24 VDC, with pH sensor



Accessories and Replacement Parts

Mfr. Part No. Code	Description
3-9950-3 159 001 954	Chlorine Controller, with four 4 to 20 mA output and binary/Relay Module, 12/24 VDC
3-9950-4 159 001 955	Chlorine Controller, with four 4 to 20 mA output and binary/Relay Module, 12/24 VDC or 100 - 240 VAC
3-9950-5 159 001 956	Chlorine Monitor, no relays or output modules, 12/24 VDC
3-9950-6 159 002 013	Chlorine Monitor, no relays or output modules, 12/24 VDC or 100 - 240 VAC
3-2632-1 159 001 767	Chlorine Dioxide Electrode, 0 to 2 ppm (mg/L)
3-2650-7 159 001 670	Chlorine – In-line Amperometric Electronics, Digital (S3L), 4.6 m (15 ft) cable
3-2724-00 159 001 545	pH Sensor, Flat Glass , Pt1000 Temp Element, 3/4" MNPT
3-2751-7 159 001 957	pH – In-line Electronics, Digital (S3L) , 4.6 m (15 ft) cable
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 (2) bottles
3-2632.398 159 310 165	Chlorine Dioxide Maintenance Kit - 2 pcs. 30 ml bottles electrolyte, 2 pcs. PTFE membranes, 2 pcs. silicone bands, and polishing paper
3-2630.394 159 310 164	Free Chlorine and Chlorine Dioxide Replacement PTFE membrane (1)

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