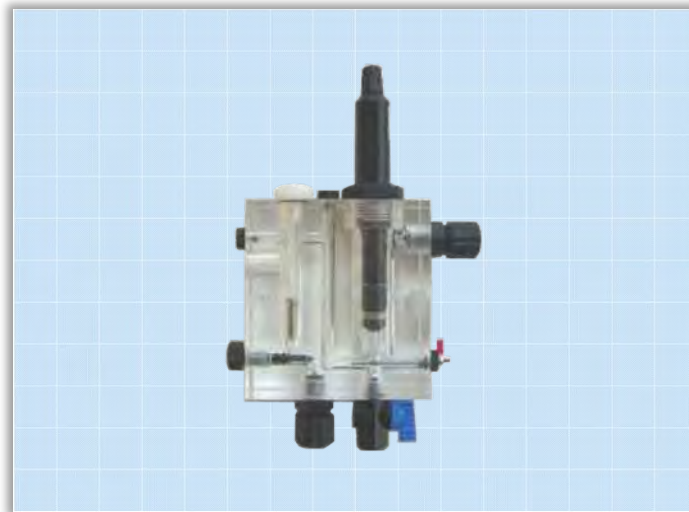


## CROSS SMART SENSOR

### DG7-CD: Chlorine Dioxide Sensor

DIGITAL TECHNOLOGY FOR OPTIMIZED MEASURES



The **DG7-CD** is designed to monitor Chlorine Dioxide ( $\text{ClO}_2$ ) in drinking water, rinse water, cooling water or other fresh water samples with its concentration between 0.005 to 20 ppm.

Since  $\text{ClO}_2$  exists in gaseous state in solution and it does not dissolve like other chlorine compounds, it is therefore not affected by the pH of the solution.  $\text{ClO}_2$  is approximately 10 times more soluble than chlorine in water; it is extremely volatile and can be easily purged from dilute aqueous solutions with minimal aeration.

The DG7-CD sensor usually works with a panel mounted acrylic flow cell installed with flow control device. Delta-Phase GDC can get the digital signal of the sensor and provide functions of displaying, data logging and control.

#### FEATURES AND BENEFITS

- Panel mounted system with flow control, simple installation;
- Plug and play design, easy setup and ready to use.
- Replace membrane and refill reagent once or twice a year
- Digital interface RS485 Modbus RTU
- Significantly reduced pH dependence.
- Fully compatible to 4 types of GDCs with complete support of displaying, data logging and control.

## SPECIFICATIONS

Measuring system	Membrane-covered, amperometric 2-electrode system with integrated electronic
Range	0.005~2.000 mg/l, ppm; 0.05~20.00 mg/l, ppm
Resolution	0.001 mg/l for (0.005~2.000 mg/l, ppm); 0.01 mg/l for (0.05~20.00 mg/l, ppm);
Accuracy	± 2% F.S.
Temp. compensation	Automatically, by an integrated temperature sensor
pH Range	1 to 12 pH
Sample flow rate	Approx. 15 to 30L/h
Run-in time	First start-up approx. 1 h
Operate Pressure	0.5 to 1.0 bar, no pressure impulses and/or vibrations
Operate Temp.	41 °F to 113 °F (5 to 45°C)
Response Time	T90 approx. 15 s
Zero Point Adjustment	Not necessary
Slope Adjustment	At the device, by analytical determination
Interferences	Cl <sub>2</sub> : is measured with factor 0.03 of its measurement value; O <sub>3</sub> : is measured
Material	Sensor: Microporous hydrophilic membrane, PVC, PEEK, 316SS; PMMA FLC and PVC panel.
Power Supply	24VDC by GDC
Spare Parts	Replacement of the membrane cap typically once a year (depending on the water quality) Refill the electrolyte typically every 3 ~ 6 months
Dimensions	Sensor: Dia. 1" (25.4 mm), Length: 8.07" (205 mm); Flow cell: 3.54x4.72x2 inch or 90x120x50 mm (WxHxD) Panel: 16.54x13.78 inch or 420x350 mm (WxH)

*Specifications subject to change without notice.*

## ORDER CODE

DG7-CD: Chlorine Dioxide Sensor with flow cell and mounting panel

	-	0.005~2.00ppm		
	-H	0.05~20.00ppm		
			-C10	10' cable
			-C20	20' cable
			-C30	30' cable
				Specify length up to 100ft (30m) in order.
<b>DG7-FC</b>	<b>-N</b>	<b>-C30</b>		



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