



CROSS SMART SENSOR

DG7-CD: Chlorine Dioxide analyzing Sensor

Digital technology for optimized measures



The DG7-CD is designed to monitor Chlorine Dioxide (ClO₂) in drinking water, rinse water, cooling water or other fresh water samples with its concentration between 0.05 to 10 ppm.

Since ClO₂ 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. ClO₂ 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 only once 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.

DELTA-PHASE ELECTRONICS, INC.





SPECIFICATIONS			
Measuring system	Membrane-covered, amperometric 2-electrode system with integrated electronic		
Range	(0.05 to 5.00/10.00)mg/l, ppm		
Accuracy	0.02mg/l (0.5~2) mg/l, ppm		
	0.1mg/l (2~5) mg/l, ppm		
	0.2mg/l (5~10) mg/l, ppm		
Resolution	0.01mg/l		
Repeatability	±1%FS		
Temp. compensation	Automatically, by an integrated temperature sensor		
pH Range	1 to 11 pH		
Sample flow rate	Approx. 30L/h		
Run-in time	First start-up approx. 1 h		
Operate Pressure	Max. 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_2 : is measured with factor 0.03 of its measurement value; O_3 : is measured		
Material	Semipermeable membrane, PVC-U		
Power Supply	24VDC by GDC		
Spare Parts	Membrane cap: M20		
	Electrolyte: ECD4/W - ECD7/W		
Dimensions	1" O.D. and 8.66" Length (O.D. 25.4mm × 220 mm)		

ORDER CODE

DG7-CD Chlorine Dioxide analyzing Sensor with panel and flow cell			
	Measuring Range		
	-MA2 0.01 to 2.00 ppm -MA5 0.01 to 5.00 ppm -MA10 0.01 to 10.00ppm		
		- C10 10' (3 m) cable	
		- C20 20' (6 m) cable	
		- C30 30' (9 m) cable	
		Other length contact factory.	
DG7-CD	-MA5	-C30	



DELTA-PHASE ELECTRONICS, INC. 1502 E. Warner Ave., Suite B, Santa Ana, CA 92705 U.S.A. TEL: (714) 866-8070 www.delta-phase.us