World First

ProMinent® Chlorite packages

Experts in Chem-Feed and Water Treatment

Reagentless Monitoring and control of chlorite

ProMinent® DULCOMETER® Chlorite analyzers provide precise monitoring or controlling of process variables for water and wastewater applications. **DULCOMETER®** products encompass a complete range of quality instrumentation from single channel transmitters to multi-channel disinfection controllers.

Gone are the days of expensive and time consuming laboratory analysis. The on-line process sample point for chlorite (patent pending) from ProMinent® directly monitors or controls the production of chlorite from water that is being treated with chlorine dioxide. Oxidation and disinfection using chlorine dioxide can lead to excess amounts of chlorite being generated as an unwanted by-product. The **D1C Chlorite Analyzer from ProMinent®** provides accurate and reliable analysis to keep your process within pre-determined values (EPA: 0.8 PPM) 24 hours a day.

ProMinent® DULCOMETER® D1C Chlorite Package

Features and benefits

- On-line analysis of chlorite in real time with no reagents
- Selective amperometric measurement with no cross-sensitivity to chlorine dioxide, chlorine or chlorate
- Easy to install Chlorite packaged system
- Not sensitive to fluctuations in temperature due to integrated temperaure compensation
- Long sensor life due to diaphragm protected electrodes
- Proven technology from ProMinent's long line of amperometric sensors and D1C controllers
- Simple calibration with DT4 test kit

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ProMinent® Chlorite Sensor Specifications

DULCOTEST® CLT 1 sensor	
Measured variable	Chlorite (ClO_2^-)
Area of application	Potable water, water similar to potable water
Measurement range	CLT 1 mA 0.5 ppm: 0.02-0.5 mg/l CLT 1 mA 2 ppm: 0.1-2 mg/l
Resolution	CLT 1 mA 0.5 ppm: 0.01 ppm CLT 1 mA 2 ppm: 0.02 ppm
Response time T_{90}	Approx. 60 s (with increasing and decreasing concentration)
pH range	6.5-9.5
Conductivity range	0/05-5 mS/cm
Temperature range	34˚- 104˚F (1 - 40˚ C)
Cross-sensitivity	Negligible to chlorine dioxide, chlorine and chlorate
Materials	Diaphragm cap PPE, Electrode shaft: PVC
Power supply	16-24 V DC; min 35 mA at 16 V DC
Output signal	4-20 mA (uncalibrated, temperature-compensated, no dynamic isolation)
Ambient temperature	41˚- 122˚F (5 - 50˚ C)
Storage temperature	41˚- 122˚F (5 - 50˚ C)
Protection system	IP 65

DULCOMETER® D1C controller	
Power supply	115/230 V (50/60 Hz)
Disturbance signal activation	for flow
Control input	Pause (for disconnection of the controller in the event of fault)
Signal output	2 freely programmable output signals
Relay output	for alarm and 2 limit values
Pump control	for 2 pumps
Control characteristic	Proportional PID

Related Products

Photometer

Microprocessor-controlled Photometer DT1, DT2B, DT3 and DT4 serve to calibrate amperometric and fluoride measuring systems by comparison measurement. They are pre-assigned to defined verification procedures and include various measurement parameters. With little investment of time, accurate and reproducible results can be achieved.

DULCOMETER® Type DDC

DULCOMETER® Disinfection Controller/Monitor and DULCO®-net technology are revolutionizing measuring, control and metering technology in public water systems. The decentralized modular concept with one single central unit controls sensors and actuators for up to 16 measurement locations. Controls up to 5 process variables at a time.

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