

MicroDPD[®] On-line Colorimeter Chlorine **Analyzer**

The on-line instrument is ideal for accurately monitoring and controlling free or total chlorine residuals up to 10 ppm

The MicroDPD[®] analyzer uses proven DPD colorimetric technology for monitoring chlorine in both municipal and industrial applications. The instrument can measure free or total chlorine in drinking water, wastewater and seawater.

The MicroDPD has many superior features over competitive instruments. The 0-10ppm range allows for diverse applications. When above 10 ppm, the display will flash indicating an out of accurate range condition but it will continue to trend up to 20ppm. The measurement signal is forwarded to a monitoring device using either the 4-20 mA output or RS485 Modbus communication.

Cycle time is not fixed – it is user selectable from 110 to 600 seconds offering greater control over testing conditions. The removable sample cuvette is designed to create a vortex which allows for thorough mixing of reagents and thorough purging of waste to eliminate cross contamination. Water and reagent flow through the instrument are microprocessor controlled. The instrument will accept sample water between 5 and 150 psig through a factory set pressure reducing valve. The MicroDPD is shipped fully calibrated with all parameters factory preset. Set up and plumbing are simple -- sample tubing is inserted into a ¼" quick connect fitting. Insert reagent bottles and power to the instrument and it is ready to analyze your process steam.

Reagents are provided in powder form and have an unprepared 5 year shelf life at ambient conditions. They are easily prepared by just adding water.

- Measures free or total chlorine
- Drinking Water, Wastewater & Seawater applications
- UL/CSA/CE approved
- 2 user selectable alarms
- User selectable cycle times from 110 sec to 600 sec
- Easy to operate
- Excellent value – Low operating costs
- Utilizes EPA approved DPD Colorimetric method



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Specifications

Measurement Range	0-10.00 mg/L (PPM)
Accuracy	±5% of reading or ±0.03 mg/L (PPM) whichever is greater for the range of 0-6.0 mg/L (PPM) ±10% of reading from 6.01-10.00 mg/L (PPM)
Resolution	0.01 mg/L (PPM)
Minimum Detectable Level	.03 mg/L (PPM)
Method	USEPA accepted DPD methodology of analysis for the measurement of Free or Total residual chlorine.
Cycle Time	Adjustable: 110 seconds to 10 minutes (600 seconds) Note: the system defaults to 2.5 minutes
Display	Multi-Line Liquid Crystal Backlit Display
Alarms	Two Programmable for sample concentration, 120-240VAC 2A Form C Relay
Analog Output	Powered 4-20 mA, 600 Ω drive, isolated
Communications Port	Bi-directional RS-485 with Modbus
Water Pressure	Integral pressure regulator 0.34 bar (5.0PSI) to 10.3 bar (150 PSI)
Flow Rate to Waste	200-400 ml/min.
Operating Temperature	0°C-55°C (32°F – 131°F)
Wetted Materials	PVC, Borosilicate Glass, Reslyn (FFKM), Viton® (FKM), Polypropylene, Stainless Steel, Acetal, Nitrile, Noryl®, Nylon
Enclosure	ABS Plastic, IP66
Sample Temperature Range	5°C-40°C (41°F-104°F)
Power Supply	Auto-selectable 100-240 VAC, 47-63 Hz, 150VA
Insulation Rating	Double Insulated, Pollution Degree 2, Overvoltage Category II
Environmental Conditions	Not recommended for outdoor use. Altitude up to 2000 meters Up to 95% RH (non-condensing)
Regulatory Compliance and Certifications	CE Approved, ETL listed to UL 61010-1-issue May 11, 2012 ED3 & ETL Certified to CSA 22.2 No. 61010.1 dated May 11, 2012
Shipping Weight	9 lbs (4.1 kgs) Reagents shipped separately
Shipping Dimensions	406 mm X 406 mm X 229 mm (16"X 16"X 9")
Warranty	1 Year from date of shipment

WATER MADE EASY

MARINE

ENERGY

MUNICIPAL

INDUSTRIAL



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