

Chlorine 3017M

DPD CHLORINE ANALYZER FOR INDUSTRIAL APPLICATIONS



The YSI 3017M DPD Chlorine Analyzer's rugged design is ideal for continuously monitoring chlorine levels in cooling towers.

With a high accuracy of $\pm .03\text{mg/L}$, the 3017M ensures that your cooling water system is operating with the right amount of residuals to prevent corrosion and control algae and microorganism growth. Configure up to two relays to automate and control the chlorination process.

- **Accurate and reliable** - Measures free or total chlorine using the DPD colorimetric method. This highly accurate method of analysis provides reliable data for process optimization and control.
- **Low maintenance** - Flow Injection Analysis simplifies maintenance and saves you time. Simplified tubing and low reagent use reduce the frequency of instrument maintenance.
- **Factory calibrated** - Eliminates the need for regular calibration.
- **Process Control** - Two configurable relays that you can connect to a PLC to automate and control chemical dosing process.

For more information visit:
YSI.com/3017M



a xylem brand

Chlorine 3017M DPD CHLORINE ANALYZER SPECIFICATIONS

SPEC SHEET XA00068

PERFORMANCE	
Measurement Method	N, N-Diethyl-p-phenylenediamine (DPD)
Measurement Range	0-5 mg/L free or total chlorine, reagent dependent
Measurement Interval	Programmable; 2.5 to 60 minutes
Accuracy	±0.03 mg/L or ±5%, whichever is greater
Limit of Detection	0.03 mg/L
Calibration	Factory calibrated, 1-point if required
Resolution	0.01 mg/L
GENERAL	
Display	2.8 x 6 cm backlit LCD
Enclosure	IP66 (with door latched)
Instrument Dimensions	16.8 x 14.8 x 7.4 inches (42.7 x 37.6 x 18.8 cm)
Mounting	4 mounting struts bolted to back of unit
Instrument Shipping Weight	<18 lbs ; 8 kg
Warranty	2 year warranty
Regulatory Compliance	US EPA regulations 40 CFR 141.74 and 40 CFR 136.3; Standard method 4500-CL-G; US EPA method 334.0; ISO method 7393-2
Certification	CE, cETLus
Language	English, French, German, Italian, Spanish
SAMPLE REQUIREMENTS	
Sample Flow Rate to Sample Inlet Device	50 to 1,000 mL/min when using Sample Inlet Device
Inlet pressure	1 to 20 psig with Sample Inlet Device
Sample Temperature Range	41 to 113 °F (5 to 45 °C)
REAGENTS AND REQUIREMENTS	
Reagent Sets	330006 - Reagent set for measuring total chlorine; includes total chlorine indicator, total chlorine buffer, and DPD powder 330007 - Reagent set for measuring free chlorine; includes total chlorine indicator, total chlorine buffer, and DPD powder
Reagent Consumption	~30 days per bottle at a 2.5 minute measurement interval
Reagent Storage Life (before hydration)	Buffer and indicator: 5 years DPD powder : 1 year
Reagent Storage Life (after hydration)	~30-40 days
POWER & COMMUNICATION	
Power	115-230 VAC , 50-60 Hz, 70VA
Relays	Two relays rated at 6A, 30VDC
Analog Output	One 4-20 mA configurable output
Digital Output	RS-485 Modbus RTU
OPTICAL	
Light Source	Class 1 LED; wavelength centered at 525 nm
Light Path Length	>1 cm
ENVIRONMENTAL	
Storage Temperature Range	41 to 158 °F (5 to 70 °C)
Operating Temperature Range	41 to 131 °F (5 to 55 °C)
Relative Humidity	90% at 40°C non-condensing

YSI, a Xylem brand
1725 Brannum Lane
Yellow Springs, OH 45387

+1.937.767.7241
info@ysi.com
YSI.com



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