

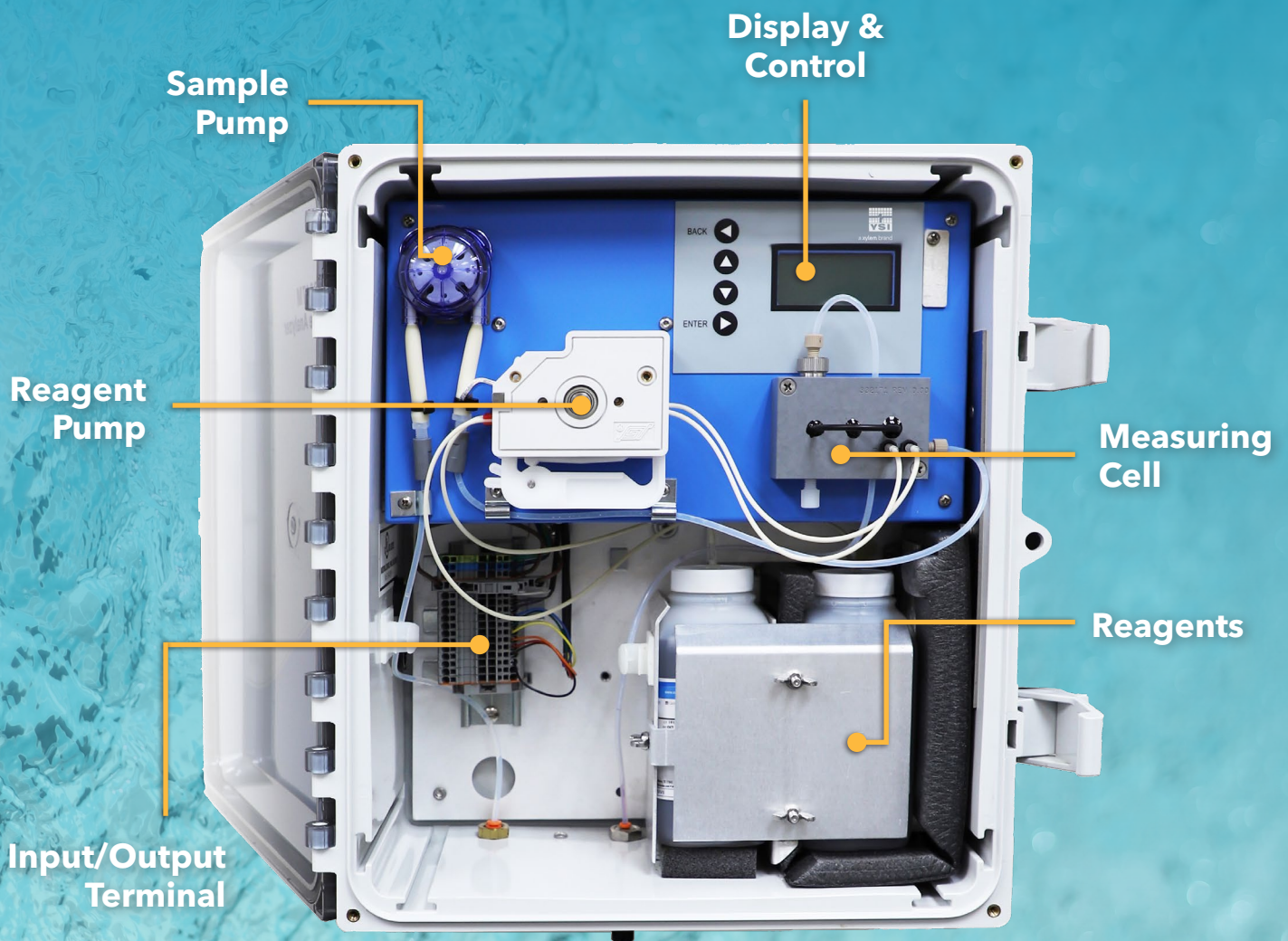


YSI 3017M Chlorine Analyzer

DPD COLORIMETRIC ANALYZER

Accurate, reliable chlorine analysis from a brand you trust.

The **YSI 3017M** is a DPD colorimetric analyzer for continuous measurement of free or total chlorine in drinking water and wastewater final effluent samples. This online analyzer can be used in municipal water applications to help monitor and control the chlorination or dechlorination process. The 3017M is low maintenance, uses EPA-approved DPD methodology, and is suitable for drinking water and wastewater permit reporting in the U.S.



What's the difference? DPD vs. Amperometric

Access YSI's comparison guide for online chlorine analysis methods.

Benefits of the 3017M:



Accurate and Reliable

Measures free or total chlorine in drinking water and wastewater final effluent using the proven DPD colorimetric method. This highly accurate method of analysis provides reliable data for process optimization and reporting.



Low Maintenance

The Flow Injection Analysis (FIA) design simplifies maintenance and saves you time. Simplified tubing and low reagent use reduces the frequency of instrument maintenance.



EPA & ISO Compliant

The 3017M is compliant with US EPA regulation 40 CFR 141.74 (drinking water) and 40 CFR 136.3 (wastewater). The 3017M measurement method conforms to standard method 4500-CL-G, US EPA method 334.0 and ISO method 7393-2.



Factory Calibrated

Eliminates the need for regular calibration.



YSI IQ SensorNet Compatible

With the MIQ IC2 module, the 3017M can be integrated into YSI's IQ SensorNet system of online controllers, analyzers, and sensors via the 3017M's 4-20mA output.

Monitor and control chlorine for these applications:



Drinking Water

For monitoring chlorine residuals, process optimization, alarming and reporting



Wastewater (Final Effluent)

For disinfection control, monitoring dechlorination and process optimization



Cooling Towers & Industrial

For monitoring chlorine levels to control slime/algae build up and monitoring chlorine residuals to control corrosion



Aquaculture & Aquatic Habitats

For monitoring chlorine levels and dechlorination in tanks and habitats

FAQ

YSI's extensive FAQ document features questions like the example below.

Is the YSI 3017M NSF-61 certified?

No, and it doesn't have to be! Why you ask? Because the YSI 3017M Chlorine DPD analyzer, like all online chlorine DPD analyzers, is a **side stream** analyzer. Meaning, the analyzer does not perform the measurement directly in the process. Instead, sample is piped out of the process and sent to the analyzer. The analyzer adds reagents to the sample, measures the reaction 'side stream', and then the sample is wasted to a drain. Therefore, the 3017M Chlorine DPD analyzer, like **all** chlorine DPD analyzers, never comes into direct contact with finished, potable water and therefore does not need to be NSF-61 certified.

NSF/ANSI Standard 61 (NSF-61) is a drinking water standard that establishes stringent requirements for the control of equipment that comes in contact with either potable water or products that support the production of potable water.



3017M Frequently Asked Questions

Access the complete FAQ document for answers to more questions!

Ordering Information

ITEM No.	MODEL No.	DESCRIPTION
330001	3017M MCA Kit 1	3017M Online DPD Chlorine Analyzer, Free or Total Chlorine (reagent dependent) measuring range 0 to 5 mg/L Cl ₂ , 115 to 230V AC. Includes 30 day supply of total chlorine reagent and buffer solution
330002	3017M MCA Kit 2	3017M Online DPD Chlorine Analyzer, Free or Total Chlorine (reagent dependent) measuring range 0 to 5 mg/L Cl ₂ , 115 to 230V AC. Includes 30 day supply of free chlorine reagent and buffer solution
330003	3017M MCA Kit 3	3017M Online DPD Chlorine Analyzer, Free or Total Chlorine (reagent dependent) measuring range 0 to 5 mg/L Cl ₂ , 115 to 230V AC. Includes 30 day supply of total chlorine reagent and buffer solution and Sample Inlet Device
330004	3017M MCA Kit 4	3017M Online DPD Chlorine Analyzer, Free or Total Chlorine (reagent dependent) measuring range 0 to 5 mg/L Cl ₂ , 115 to 230V AC. Includes 30 day supply of free chlorine reagent and buffer solution and Sample Inlet Device



[YSI.com/3017M](https://www.ysi.com/3017M)

3017M Chlorine DPD Analyzer INSTRUMENT SPECIFICATIONS

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

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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