



Chlorine Measurement System

CISys:DataStick



Features:

- ❖ Reagent-free amperometric design
- ❖ Compliant with EPA Method 334.0 for online drinking water monitoring
- ❖ Manual or Automatic pH compensation
- ❖ Temperature compensated
- ❖ Pre-calibrated, Plug & Play Sensors
- ❖ Rugged Teflon membrane in replaceable sensor cap
- ❖ Remote measurement, calibration, configuration and diagnostics
- ❖ Convenient turn-key AquaChlor monitoring system for optimal performance

Applications:

- ❖ Drinking water
 - Production & distribution
- ❖ Food & beverage
 - Monitor sanitized
- ❖ Process water
 - Monitor sterilization of glassware
- ❖ Reverse osmosis/ultrapure water
 - Chlorine damages filter membranes

Benefits:

- ❖ Retains calibration in the head
- ❖ Easy Sensor head replacement
- ❖ Auto temperature compensation
- ❖ Auto pH compensation
- ❖ Use with AV38 controller.
- ❖ Multiple communications protocols available
- ❖ Reagent free



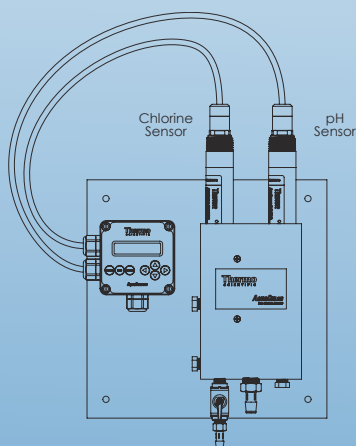
This free chlorine sensor will measure accurately in clean water processes between 4 and 9 pH. Best performance is achieved when used in applications where process pH, temperature, flow and pressure are stable.

When used with the Thermo Scientific AV38 Local Display/Controller and a pH DataStick sensor, measured hypochlorous acid (HOCl) and hypochlorite ion (OCl⁻) concentrations can be used to determine free chlorine levels present.

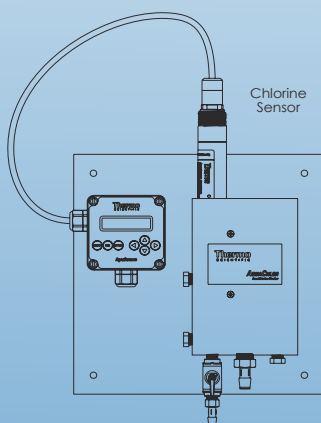


System Specification

Measurement System Performance	Range:	0 to 10 ppm		
	Resolution:	0.01 ppm		
	Minimum Detection limit:	0.03ppm		
	Accuracy:	±3% of measured sample (at constant pH 4.0 to 7.2) ±10% of measured sample (at constant pH up to 9.0)		
	Step Response Time:	90% in 30 seconds		
Operational Environment	Temperature Range:	0°C to 45 °C		
	Maximum Pressure:	100psig @ 45 °C		
	Sample Flow Rate in chamber:	200 - 250 ml/min		
Free Chlorine Operation	When chlorine and pH DataSticks are connected to the AV38 local display, HOCl and OCl ⁻ dissociation curves are pH compensated and used to calculate free chlorine present. A stable pH value can also be entered manually.			
Power Requirements	DC Option:	Voltage Range:	10 to 30 VDC	
		Maximum Power:	200 mW	
		Typical Power:	120 mW	
	AC Option:	90-240 VAC, 50-60 Hz, 4 watts		
Construction	Process Electrode:	Gold Cathode /Silver Anode	Sensor Head Material:	Noryl
	Membrane:	Teflon	Data stick Material:	CPVC
	O-rings:	Viton®	Weight	1.2 lbs
	Flow chamber:	Acrylic		
Units of Measure	Measurement Units:	ppm		
	Temperature Units:	°C, °F		
Calibration	Sample:	1 point, Zero: 1 point, Temperature:	1 point	Note: Precalibrated at the factory
Other Configuration Options	Sensor Filter:	0-100 seconds		
	Temperature Filter:	0-100 secs		
Approvals and Ratings	Immunity & Emissions:	CE Certified 89/336/EEC: CISPER 11, EN61000 (-4-2,-4-3,-4-4,-4-6, 4-8)		
	Safety:	cULus Listed; 367G E303570		
	Hazardous Locations:	Haz Loc Class 1, Division 2, Groups A, B, C, D. Max Ambient 50 °C		



AquaChlor System with free chlorine and pH DataStick sensors installed.



AquaChlor System with free chlorine DataStick sensor only.



Provides universal conversion of sensor signals and interactive communications for measurement, calibration, configuration and diagnostics. Mounting adapters, junction boxes and recharge kits are available.

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Note To End Users : These specifications are subject to change at any time without notice. Envitech Ltd takes no responsibility for the use of these figures. Please consult Envitech Ltd for the latest specifications before using them in tender submissions or third party quotes... Envitech Ltd reserves the right to change specifications without prior warning. All quoted figures are based on test conditions and are subject to variation due to site conditions.
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