

# SP-710 / 710B Water Multimeter

The Pyxis SP-710 and SP-710B are handheld multimeter units capable of measuring up to 6 key water treatment parameters simultaneously. SP-710 offers pH, Conductivity, PTSA, Temperature, ORP and a Free/Total Chlorine Colorimeter uniquely designed as a multimeter for cooling water applications. The SP-710B offers pH, Conductivity, PTSA, Temperature, ORP and Fluorescein for boiler water applications. Both units offer a Bluetooth enabled and fully potted, battery powered pH/ORP module, eliminating water and KCl contamination to the unit processor. The new module design offers wireless communication to the base SP710/B unit and can also be viewed via the uPyxis APP for smartphone and/or our full scale SP-910 Colorimeter.

The SP710/B is fully waterproof and industrialized and available with an optional body case bump guard with bet clip for ease of access and protection. Pyxis has integrated a fully molded screen to ensure a water proof seal under a pressurized manufacturing environment. The device itself also contains an integrated humidity sensor to ensure a water-free electronic environment.

The simplicity of the one-handed operation is empowered by the Pyxis Inc. proprietary technology that combines electrochemical and optical measurements in a cuvette-less platform. This unique technology simultaneously measures and compensates for Color and Turbidity contamination of the water sample during fluorescence testing, ensuring precise measurement capability +/-1ppb resolution, unmatched in the water treatment market.

In less than one minute, results for all key parameters for a typical traced cooling and boiler water treatment applications can be determined. The SP-710/B stores the history for all measurements which can then be transferred via Bluetooth to smartphones or computers for statistical analysis via the uPyxis APP. The SP-710/B can also be used to wirelessly diagnose and calibrate the Pyxis ST-500 and ST-525 inline PTSA/Fluorescein probes, dramatically reducing service time in the field associated with tracer probe calibration.

## Typical Applications

Traced water treatment for industrial / commercial cooling towers and boilers.



*Bluetooth Wireless pH/ORP Module*



*TMB Free/Total Chlorine Pipette*

## Specifications

Item		SP-710	SP-710B
Analysis	PTSA	0~300ppb, ±1ppb or 1% precision	0~300ppb, ±1ppb or 1% precision
	Fluorescein	N/A	0~600 ppb, ±1% or 0.1ppb precision, whichever is greater
	Conductivity	1~15,000 uS/cm with ATC. ±1% or ±1uS/cm precision	
	pH	0~14 with ATC, ±0.01 pH unit precision	
	ORP	±1500mV, ±1mV precision	
	F/T Cl <sub>2</sub>	FCl <sub>2</sub> 0-2.2ppm / TCl <sub>2</sub> 0-5ppm <i>Pending</i> - (TMB Method)	
	Temperature	0~70°C (32~160°F) ±0.1°C(±0.18°F)	
Storage temperature		-20 °C ~ 60° C (-4~140°F)	
Operational temperature		0° C ~ 40° C (32~104°F)	
Sensor module		pH/ORP, replaceable, wireless, potted battery	
Typical sensor life		pH/ORP - 1 year PTSA/Conductivity - 5 years	
Protection grade		IP67, full dust and water proof	
Regulation		CE	
Display		Color LCD, visible under direct sunlight	
Power supply		(4) AA alkaline batteries	
Typical battery life		10,000 readings	
Dimension (L x W x H)		180 x 80 x 38.5mm (7.1 x 3.1 x 1.5 inches)	
Weight		380 g (0.85 lbs) batteries excluded	
*With Pyxis' continuous improvement policy, this specification is subject to change without notice.			

## Features

- Breakthrough technology combines the following in a single rugged one-handed meter.  
**SP-710**=PTSA / Conductivity / pH / ORP / Temperature / Free & Total Chlorine Colorimeter  
**SP-710B**=PTSA / Conductivity / pH / ORP / Temperature / Fluorescein
- Waterproof Bluetooth Enabled potted battery powered pH/ORP Module
- pH/ORP Battery Module Added Wireless Communication Capable uPyxis APP & SP-910
- Intelligent sensor aging and/or humidity detection capability.
- Record up to 8G historical data with a calendar time mark and options to set up sample location information
- Long battery life - 10,000+ readings
- Auto Compensation for Color & Turbidity Contamination = Precise Measurement
- Brightness Adjustable Color Screen with Parameter Locking-in Function
- Wireless Diagnosis & Calibration of Pyxis ST-500 (PTSA) & ST-525 (Fluorescein) probes
- Optional Body Pump Guard w/Belt Clip

**Order Information**

	<b>P/N</b>
SP-710 Water Multimeter <i>(PTSA / pH / ORP / Conductivity / F&amp;T Chlorine)</i>	50352
SP-710B Water Multimeter <i>(PTSA / Fluorescein / pH / ORP / Conductivity)</i>	50316
SP-710 Wireless pH/ORP Module	50315
Free Chlorine Reagent Pipette For SP-710 <i>(Bag 100 Count)</i>	31053
Total Chlorine Reagent Pipette For SP-710 <i>(Bag 100 Count)</i>	31054

**Related Products**

PTSA-100 <i>(100ppb PTSA Standard, 500ml)</i>	PTSA-100
FLUO-50 <i>(50ppb Fluorescein Standard, 500 ml)</i>	FLUO-50
FLUO-250 <i>(250ppb Fluorescein Standard, 500 ml)</i>	FLUO-50
ORP-200 <i>(2000mV ORP Standard, 500ml)</i>	57020
Pyxis Handheld Cleaning Solution <i>(500mL Bottle)</i>	SER-02