

# 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 carry case. 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 Lab 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 Dropper

## 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>	Free & Total Chlorine 0-2.2 (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 Carry Case (MA-700)

**Ordering Information**

	<b>P/N</b>
SP-710 Multi-Meter ( <i>pH/ORP/Conductivity/TDS/PTSA/Temp/TMB-F&amp;T Cl<sub>2</sub></i> )	50352
SP-710B Multi-Meter( <i>pH/ORP/Conductivity/TDS/PTSA/Temp/Fluorescein</i> )	50316
Replacement Bluetooth pH/ORP Module	50315
TMB Free Chlorine Reagent ( <i>x 230 tests – Dropper Bottle</i> )	63901
TMB Total Chlorine Reagent ( <i>x 230 tests – Dropper Bottle</i> )	63902
TMB Chlorine Secondary Standard Solution 1 ppm ( <i>125mL Bottle</i> )	21038

**Related Products**

	<b>P/N</b>
PTSA-1010 ( <i>Combined Standard 100ppb PTSA / 1000uS.cm – 500mL</i> )	21004
FLUO-50 ( <i>Fluorescein Calibration Standard 50ppb – 500mL</i> )	FLUO-50
FLUO-250 ( <i>Fluorescein Calibration Standard 250ppb – 500mL</i> )	FLUO-250
FLUO-500 ( <i>Fluorescein Calibration Standard 500ppb – 500mL</i> )	FLUO-500
pH 4-7-10 Combination Calibration Std Kit ( <i>500mL each</i> )	57007
ORP Calibration Std 200mV ( <i>500mL</i> )	57020
Pyxis Handheld Device Sample Well Cleaner ( <i>500mL</i> )	SER-02
pH/ORP Storage Solution ( <i>70mL</i> )	63900