

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 ± 1 ppb 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 Cl2 | 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 wate-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

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

Related Products

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

W A L C H E M

IWAKI America Inc.