

Pyxis SP-910 Portable Water Analyzer

Pyxis

Simple, Robust, Intelligent



PTSA and Fluorescein

Measure PTSA and Fluorescein in the same meter for your traced programs in cooling and boiler applications.



Battery Life Doubled

Six months or more under typical usage even equipped with higher resolution LCD readable in direct sunlight.



Calibrate ST-500 Directly

Calibrate a nearby ST-500 via build-in Bluetooth after measuring sample concentration. No laptop or any other tool needed.



User Defined Programs

User defined programs supported with non-linear calibration curves. 60+ programs including reagent-less nitrite and chlorine dioxide measurement.



More Upgrades

Turbidity range extended to 0-100 and 0-1000 NTU with auto ranging. 16mm tube adaptor available for programs require digestion. Talk to smart phone for firmware upgrade and data log.



3-in-1 } **Fluorometer**
Colorimeter
Turbidimeter



Fluorometer



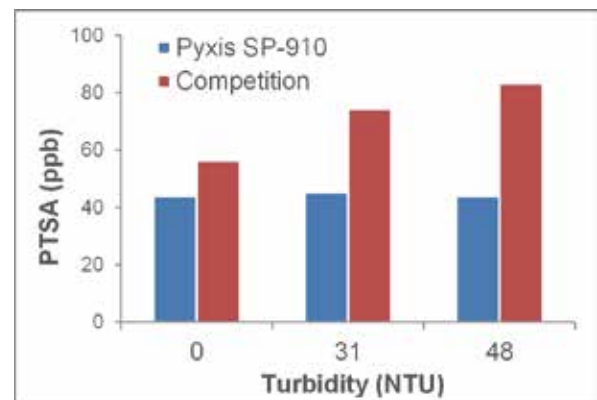
Colorimeter



Turbidimeter

PTSA Determination with Immunity to Color / Turbidity Interference

Maximum rejection to sample color and/or turbidity interference by state-of-the-art optical design and proprietary compensation algorithm.



Pyxis SP-910

Portable Water Analyzer

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Methods Supported... Keep Increasing

| Parameter | Description, Corresponding Hach® PRMP Number | Range |
|--------------------------------|---|-------------------|
| NO ₂ ⁻ | Direct nitrate, no reagent needed, Pyxis method | 100ppm 1000ppm |
| Cl ⁻ | Turbidimetric method for chloride ion, Low Range, Pyxis method | 4ppm 40ppm |
| Cl ⁻ | Turbidimetric method for chloride ion, Middle Range, Pyxis method | 40ppm 400ppm |
| Mg ²⁺ | Magnesium, EBT method, Middle Range, Pyxis method | 10ppm 100ppm |
| Mg ²⁺ | Magnesium, EBT method, High Range, Pyxis method | 100ppm 400ppm |
| Polymer | Turbidimetric method for anionic polymers, Pyxis method | 0.2ppm 13.0ppm |
| ClO ₂ | Direct reading automatic range selection, Pyxis method | 0.2ppm 3000ppm |
| Bleach | Direct Method measuring sodium hypochlorite concentration, Pyxis method | 1% 12% |
| Chlorine | Chlorine, Free, DPD, PRMP 9 | 0.02ppm 2.2ppm |
| Chlorine | Chlorine, Total, DPD, PRMP 9 | 0.02ppm 2.2ppm |
| Chlorine | High Range DPD Chlorine, No sample change needed, PRMP 12 | 0.1ppm 6.0ppm |
| Cu | Copper, Bicinchoninate Method, PRMP 20 | 0.02ppm 5.0ppm |
| Cu | Porphyrim Method for Copper, PRMP 22 | 0.006ppm 0.2ppm |
| DEHA | DEHA, Iron Reduction Method for Oxygen Scavengers, PRMP 25 | 0.009ppm 0.5ppm |
| Ca ²⁺ | Calcium: Calmagite Colorimetric Method, PRMP 29 | 0.08ppm 4.0ppm |
| Mg ²⁺ | Magnesium: Calmagite Colorimetric Method, PRMP 30 | 0.13ppm 4.0ppm |
| Fe | Iron, 1,10 phenanthroline Method, PRMP 33 | 0.03ppm 3.0ppm |
| Fe | Iron, FerroZine Method, PRMP 37 | 0.011ppm 1.3ppm |
| Fe | Iron, TPTZ Method, PRMP 39 | 0.04ppm 1.8ppm |
| Fe | Iron, for cooling water with molybdenum-based treatment, PRMP 38 | 0.03ppm 1.8ppm |
| MoO ₄ ²⁻ | Molybdenum, High Range, Mercaptoacetic Acid Method, PRMP 44 | 0.2ppm 40.0ppm |
| MoO ₄ ²⁻ | Molybdenum, Low Range, Ternary Complex, PRMP 47 | 0.07ppm 3.0ppm |
| NO ₂ ⁻ | Nitrite, High Range, Ferrous Sulfate, PRMP 59 | 2.0ppm 150.0ppm |
| NO ₂ ⁻ | Nitrite, Low Range, Diazotization, PRMP 60 | 0.005ppm 0.3ppm |

| Parameter | Description, Corresponding Hach® PRMP Number | Range |
|---------------------------------|---|-------------------|
| OP04 | Phosphorus, Reactive, Molybdovanadate, PRMP 77 | 0.2ppm 45.0ppm |
| OP04 | Phosphorus, Reactive, Orthophosphate | 0.05ppm 2.5ppm |
| OP04 | Phosphorus, Reactive, Amino Acid, PRMP 85 | 0.2ppm 30.0ppm |
| Phosphonate | Phosphonates, Persulfate UV Oxidation, PRMP 80 | 0.05ppm 2.5ppm |
| ClO ₂ | Chlorine Dioxide, DPD, PRMP 112 | 0.04ppm 5.0ppm |
| ClO ₂ | Chlorine Dioxide, Direct Reading, PRMP7 | 7.3ppm 50.0ppm |
| SiO ₂ | Silica, High Range, Silicomolybdate, PRGM 89 | 1.0ppm 75.0ppm |
| SiO ₂ | Silica, Low Range, Heteropoly Blue, PRMP 90 | 0.02ppm 1.6ppm |
| Azole | Benzotriazole, UV Photolysis Method, PRMP 3 | 0.7ppm 16.0ppm |
| SO ₄ ²⁻ | Turbidimetric method for Sulfate, PRMP 91 | 4.9ppm 70.0ppm |
| Cr(VI) | Hexavalent chromium, 1,5-Diphenylcarbohydrazide Method, PRMP 13 | 0.01ppm 0.6ppm |
| Cr | Chromium total Alkaline Hypobromite Oxidation Method, PRMP15 | 0.01ppm 0.6ppm |
| NH ₃ -N | Salicylate Method, PRMP 64 | 0.02ppm 0.5ppm |
| Mn ²⁺ | Low Range Manganese PAN Method, PRMP 43 | 0.02ppm 0.7ppm |
| Mn ²⁺ | High Range Manganese, Periodate Oxidation Method, PRMP 41 | 0.2ppm 20.0ppm |
| NH ₂ Cl | Indophenol Method for MonoChloramine, PRMP 110 | 0.1ppm 3.0ppm |
| Al | Aluminon Method for Aluminum, PRMP 1 | 0.02ppm 0.8ppm |
| F | SPADNS 2 Method for Fluoride, PRMP 27 | 0.05ppm 2.0ppm |
| Zn | Zincon Method for Zinc, PRMP 97 | 0.02ppm 3.0ppm |
| S ²⁻ | Methylene Blue Method for Sulfide, PRMP 93 | 0.01ppm 0.7ppm |
| CN ⁻ | Pyridine-Pyrazalone Method for Cyanide, PRMP 23 | 0.008ppm 0.2ppm |
| N ₂ H ₄ | P-Dimethylaminobenzaldehyde Method for Hydrazine, PRMP 31 | 0.016ppm 0.5ppm |
| NO ₃ ⁻ -N | Middle range nitrate, PRMP 54 | 0.2ppm 5.0ppm |
| NO ₃ ⁻ -N | High range nitrate, PRMP 51 | 0.8ppm 30.0ppm |
| Ni | PAN Method for Nickel, PRMP 48 | 0.013ppm 1.0ppm |
| (HOCN) ₃ | Turbidimetric Method, PRMP 24 | 7ppm 5ppm |
| pH | Phenol red method for pH, PRMP 75 | 6.5 8.5 |

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Pyxis SP-910 Portable Water Analyzer Specifications

| | |
|------------------------------------|--|
| PTSA | 0-200 ppb |
| Fluorescein | 0-600 ppb |
| Colorimeter Wavelength | 420, 455, 525, 560, 570, and 610nm |
| Turbidity Excitation Wavelength | White and IR LED |
| Fluorescence Excitation Wavelength | 365 / 470 nm LED |
| Fluorescence Emission Wavelength | 410 / 525 nm |
| Wavelength Accuracy | ±1 nm |
| Absorbance Reproducibility | 0.005 au in the range of 0 to 1.0 au (3 sigma) |
| Absorbance linearity range | 0 to 1.0 au |
| Fluorescence Reproducibility | 0.3 ppb PTSA / 0.03 ppb Fluorescein (3 sigma) |
| Fluorescence Detection Limit | 1 ppb PTSA / 0.1 ppb Fluorescein |
| Turbidity Range | 0-100 / 0-1000 NTU Auto Range |
| Turbidity Detection Limit | 1 NTU |
| Battery | 4 AA alkaline |
| Typical Battery Life | 6 months |
| Display | LCD display, visible under direct sunlight |
| Dimension | H265 W88 H69 (mm) |
| Weight | 600g (without batteries) |
| Temperature Range | 40 to 106 °F (4 to 41 °C) |
| Humidity | 85% at 106 °F (41 °C) |
| Environmental | IP67, dustproof and waterproof |

Due to continuous improvements, specifications are subject to change without notice. Supported colorimetric methods are available at www.pyxis-lab.com by downloading the latest operation manual.



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