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 equiped 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 availiable for programs require digestion. Talk to smart phone for firmware upgrade and data log.

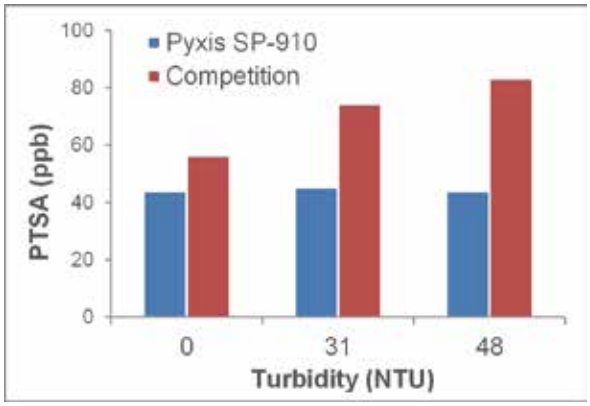
3-in-1
- Fluorometer
- Colorimeter
- Turbidimeter


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.



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Portable Water Analyzer

Methods Supported… Keep Increasing

Parameter	Description, Coresponding 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	40pm
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, Totoal, 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	Porphyrin 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, Coresponding Hach® PRMP Number	Range	
OPO4	Phosphorus, Reactive, Molybdovanadate, PRMP 77	0.2ppm	45.0ppm
OPO4	Phosphorus, Reactive, Orthophosphate Ascorbic Acid, PRMP 79	0.05ppm	2.5ppm
OPO4	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-Diphenylcarbohydrzaide 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_2Cl	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_2H_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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