DATA SHEET

ST-500 Series Inline Fluorometers for PTSA

ST-500 series probes are UV excited inline fluorometers for measuring the concentration of PTSA in cooling tower and RO water systems. Capable of low-level detection in ppb + 1ppb.

Key Features

- High resistance to color and turbidity interference from sample water
- Digital communication via Bluetooth to smartphone App for diagnosis and troubleshooting
- Highly stable and extremely reliable even in harsh applications

Inline Bluetooth Adapter (P/N: MA-WB)

Connect any Pyxis inline sensor to computers or Smartphones with uPyxis app via Bluetooth connection to read, calibrate, diagnose, and set up.

ST-001 Custom Tee for All Sensors

- UPVC, molded
- SCH 80
- Dual unions for ¾ inch NPT or unthreaded parts

Accurate Traced Chemical Monitoring:

The ST 500 inline fluorometer, state of the art technology was developed by Pyxis Lab, Inc. in the United States. It measures traced chemical residue every 4 seconds in the sample water with 1% accuracy. It allows an optimal narrow band control in the treatment chemical concentration for cost effectiveness and, more importantly, best treatment performance.

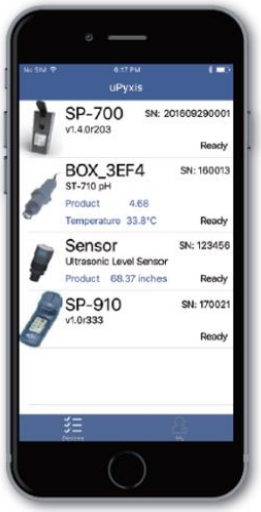
High Rejection to Turbidity and Color Interference:

Turbidity and color in most cooling tower applications interfere traditional fluorimeters and lead to significant dosing errors, even up to 50%. With the ST 500's proprietary optical design and sophisticated compensation algorithm, the ST 500 delivers great precision and accuracy for waters containing up to 150 NTU turbidity and 4 ppm iron. This breakthrough technology ensures ST 500 to outperform in the toughest cooling water applications while keeping maintenance demand at a minimum with our uPyxis diagnostics capabilities.

uPyxis NEW Universal Pyxis Connectivity App

uPyxis manages all Pyxis portable meter and inline sensors on your iPhones, Android phones or computers.

Pyxis has developed the uPyxis mobile app for iOS and Android. The app can set the device, do a 2- point calibration, check for probe cleanliness and upload diagnosis data all within a simple click.



Note:

[1] uPyxis is still evolving rapidly. Some features may only be available on smartphone version. Check our website www.pyxis-lab.com for latest information.

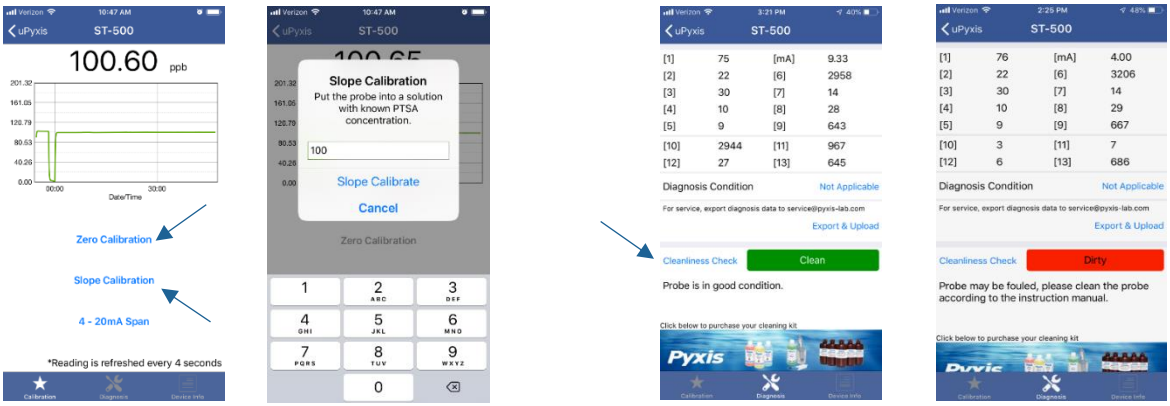
[2] Inline Bluetooth adapter (P/N: MA-WB) is required for inline sensors To be connected

Please search "uPyxis" on the Apple App Store or Google Play Store, or click the links below to download:

Download on the App Store

GET IT ON Google Play

Calibration and diagnostics made easy with our uPyxis app



Cleaning and calibration video: Click below to watch our Cleaning and Calibration Procedure

YouTube https://www.youtube.com/watch?v=Z5SLEzhBb3M&t=3s

Specifications

Items	ST-500	ST-500RO	ST-500SS
PTSA range	0-200 ppb	0 to 40 ppb	0-200 ppb
Precision (3σ)	±1% or ±1ppb	±1% or ±0.2 ppb	±1% or ±1ppb
Power Supply	22-36 VDC, ~1W		
Output	4~20 mA isolated, RS-485 isolated		
Connector	IP67 water proof connector/cable 1.5 m (4.5 ft)		
Operation Pressure	Up to 0.7 MPa (100PSI)		Up to 2.0 MPa (290 PSI) At 65°C (150 °F)
Installation	¾-inch NPT, panel mount by screws or pipe clamp		
Storage temperature	-20 °C ~ 60 °C (-4~140 °F)		
Operational temperature	40 – 120 °F (4 – 49 °C)		40 – 120 °F (4 – 49 °C)
Housing material	CPVC		304 Stainless Steel
Dimension	Length 6.8 inch (172.7 mm), body diameter 1.44 inch (36.6 mm)		8.5 inch length, 2.25×2.25 inch header and 1.75 inch diameter body
Weight	0.37 lbs (170 grams)		2.5 lbs

Order Information

Model: ST-500	Inline Fluorometer Cooling (PTSA 0-200ppb)	P/N: 50661
Model: ST-500RO	Inline Fluorometer RO (PTSA 0-40ppb)	P/N: 50669
Model: ST-500SS	Inline Fluorometer High Pressure (PTSA 0-200ppb)	P/N: 50700

Related Products

Model: SP-350	Handheld Fluorometer (PTSA)	P/N: 50206
Model: SP-380	Handheld Fluorometer (PTSA & Fluorescein)	P/N: 50208
Model: SP-400	Handheld Fluorometer (PTSA & Conductivity)	P/N: 50201
Model: SP-710	Handheld Fluorometer (PTSA / Free Cl2 & Multimeter)	P/N: 50352

More Information

If your Pyxis meter or probe requires service, please send an email to: service@pyxis-lab.com.