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 smart phone 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 ports
  P/N: 50704

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 2% 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
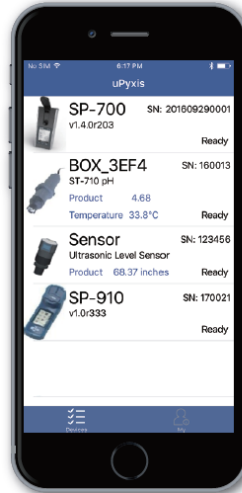### Universal Pyxis Connectivity App

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

Create your own colorimetric method, add more traced product names, transfer data log to a computer, upload diagnosis information for support from Pyxis, quickly download instruction manuals, ...

Note:
[1] uPyxis is still evolving rapidly. Some features may only be available on the smart phone version. Check our website www.pyxis-lab.com for latest information.
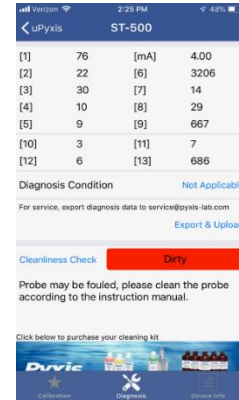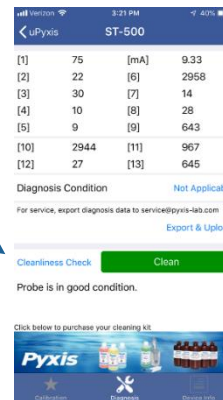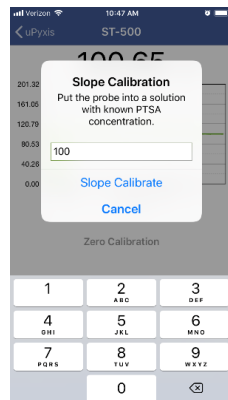[2] Inline Bluetooth adapter (P/N: MA-WB) is required for inline sensors to be connected.
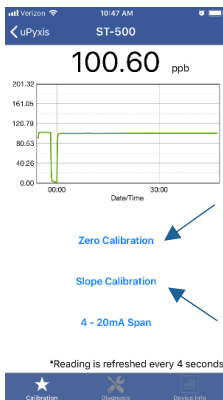
Please search "uPyxis" on the Apple App Store or Google Play Store, or click the links below to download

Calibration and diagnostics made easy with our uPyxis app

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.

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)		32~150 °F (0 – 65.5 °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: 50301

Model: SP-380   Handheld Fluorometer (PTSA & Fluorescein)   P/N: 50201

Model: SP-400   Handheld Fluorometer (PTSA & Conductivity)   P/N: 50664

Model: SP-700   Handheld Fluorometer (PTSA & MulitMeter)   P/N: 50209

More Information

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