

ST-500 Series Inline Fluorometers

(PTSA / Fluorescein / NDSA)

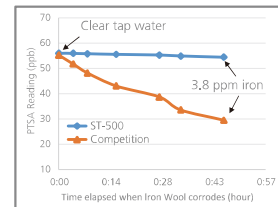
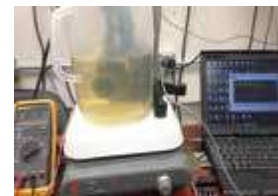
With earned reputation in its great accuracy and proven robustness, the ST-500 inline fluorometer has become a popular model for real-time monitoring of inhibitor doses in the application of fluorescence traced cooling programs. It is mostly used for feedback control to maintain the dosed concentration within a narrow band around the set point against changes in cycle or heat load dynamics.

Now the ST-500 Series covers a broad range of analytes, including fluorescein and naphthenic disulfonic acid (NDSA) to bring your success of traced cooling programs to boiler and other applications.

Thanks to state-of-the-art fluorescence technology adopted in our design, the ST-500 Series is very forgiving to real world sample water conditions. With its flow-through optical design and multiple wavelength color/turbidity compensation algorithm, the ST-500 probe keeps high performance for water samples with up to 100 NTU turbidity and/or 5ppm iron. The comparison in the experiment shown below clearly demonstrates the superior performance of the Pyxis ST-500 probe in the presence of iron color.



NEW



Special Warranty Program

To continuously support our customers, we proudly offer 3-year warranty for ST-500 Series starting from September of 2017 for global customers.

For more details, please reach www.pyxis-lab.com.

Typical Applications

- Traced cooling water treatment and RO programs.
- Traced boiler water treatment programs.

Features

- Color and turbidity compensation
- Long term stability and less frequent calibration.
- Typical maintenance cycle in months.
- Can be calibrated by SP-910/700/400 via the WiFi / Bluetooth adapter.
- Isolated 4-20mA output. No need for additional transmitter for easy connection with PLC and DCS.

	ST-500/ST-500SS ^[1]	ST-525/ST-525SS ^[2]	ST-540
P/N	50661 50700 for SS	50665 50666 for SS	50667
Target	PTSA	Fluorescein	NDSA
Range	0-300 ppb	0-60ppb	0-100 ppb
Resolution	0,1 ppb		
Accuracy	±1% of reading or 1 ppb whichever is greater		
Method	UV Fluorescence		
Power Supply	22-26V DC, Power Consumption ~1W		
Outputs	Isolated 4-20mA Analog Output Isolated RS-485 Digital Output, Supporting MODBUS protocol		
Dimension	Length 6.8 inch, body diameter 1.44 inch, 500ss/525SS: 8.3x2.25x1.75 inch		
Weight	0.37lbs ,525SS/525SS:		
Installation	Custom tee with 3/4" NPT ports		
Housing Material	CPVC / stainless steel		
Pressure	ST-500SS & ST-525SS 290psi / ST-500 and ST-525 100psi		
Temperature	Operation 40-120 °F, Storage 20-140 °F		
Cable Length	5 feet, terminated with IP67 connectors. 30 feet, 60 feet extension cables available		
Calibration	Two point calibration against standard solutions		
Rating	IP66		
Regulation	CE marked		

[1] Camlock version available.

[2] Stainless housing version available. Check www.pyxis-lab.com.