

SP-300 and SP-400 Series Handheld Fluorometers

Product Description

The Pyxis SP-300 & SP-400 series are highly advanced and simple to use handheld fluorometers specifically designed for the direct concentration measurement of wide variety of fluorescent substances measured in industrial water treatment. Designed for the industrial cooling, boiler and process water these uniquely designed fluorometers allow water samples to be directly filled into the sample cell. This differentiation eliminates the need for purchasing sample cuvettes for device use reducing the cost of use. The proprietary internal algorithms of the Pyxis fluorometer platforms allow for the compensation of color and turbidity contamination resulting in dramatically improved measurement accuracy in real-world waters versus alternative devices on the market. The SP-300 and SP-400 series fluorometers also offer an internal sample cell cleanliness diagnostics function for predictive cleaning maintenance. All Pyxis handheld devices are fully integrated with Bluetooth® 5.0 capability allowing for wireless access via the uPyxis APP for customized settings, configuration and firmware updates.

Key Features

- Color and turbidity compensation to eliminate measurement interference
- Direct correlation to Pyxis Inline Fluorometers (color & turbidity compensated)
- Turbidity over-range alarm feature for samples with excessive turbidity
- No sample cuvette required eliminates variations associated use of cuvette
- Large color graphic screen with LOCK-IN feature when reading has stabilized
- Waterproof & drop-resistant design
- Integrated sample cell cleanliness diagnostic function for cleaning frequency
- Bluetooth® enabled for wireless customization/configuration
- Customizable display output value as ppm product vs ppb tracer via uPyxis APP



SP-380



SP-400

Product Selection Table

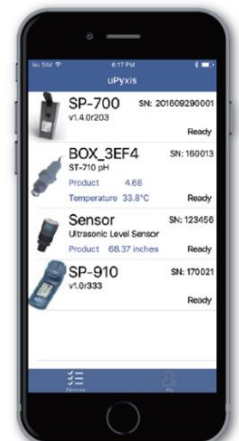
| Model | P/N | Target Fluorophore & Range | Applications |
|---------|-------|--|---|
| SP-350 | 50206 | PTSA (0-300 ppb) | Cooling & Process Water Treatment |
| SP-380 | 50208 | PTSA (0-300 ppb) Fluorescein (0-600 ppb) | Cooling, Process & Boiler Water Treatment |
| SP-395 | 50209 | Halogenated Azole (0-7.5 ppm) | Halogen Stable Azole |
| SP-395T | 50221 | TTA (0-10.0 ppm) | Tolytriazole |
| SP-395N | 50226 | NDSA (0-100 ppb) | Research and Boiler Water Treatment |
| SP-400 | 50221 | PTSA (0-300 ppb) Conductivity (0-15,000 μ S/cm) | Cooling and Process Water Treatment |

Common Specifications

| Items | Specification |
|--------------------------|--|
| Battery | 9V Alkaline Battery |
| Typical Battery Life | 3,200 Readings (480mAh battery) |
| Display | TFT-LCD, visible under direct sunshine |
| Dimension | L 160 W74 H33 (mm) |
| Weight | 295g without battery |
| Sample Temperature Range | 40~106 °F (4 ~41°C) |
| Measurement Cycle | 15-999 min (adjustable) |
| Humidity | 85% at 106°F (41°C) |
| Environmental | IP67, Dustproof & Waterproof |
| Regulation | CE / RoHS |
| Communication | BlueTooth® 5.0 |

Wireless Data Transfer, Firmware Updates and Sensor Calibration via uPyxis APP

The uPyxis APP manages all Pyxis portable meter and inline sensors on mobile and desktop devices, including Apple iPhones and Samsung Android smartphones. Users may utilize the uPyxis APP to customize product name display, download custom measurement curves, and update firmware to the SP-300/400 Series and all other Pyxis handheld devices. Each Pyxis handheld device is integrated with Bluetooth 5.0 and can dialog directly with uPyxis Mobile or PC devices for this purpose. ***Note*** The uPyxis Mobile APP is evolving rapidly and users can find the latest version at no cost on Apple iStore or Google Play.



Order Information

| | |
|------------------------------|-------|
| SP-350 (PTSA) | 50206 |
| SP-380 (PTSA + Fluorescein) | 50207 |
| SP-395 (HST) | 50209 |
| SP-395T (TTA) | 50221 |
| SP-400 (PTSA + Conductivity) | 50201 |

Accessories

| | P/N |
|--|-----------|
| Pyxis Handheld Cleaning Solution Kit | SER-02 |
| PTSA-1010 (100ppb PTSA+ 1,000uS/cm Standard – 500mL) | PTSA-1010 |
| PTSA-100 (100 ppb PTSA Standard - 500mL) | PTSA-100 |
| FLUOR-50 (50ppb Fluorescein Standard – 500mL) | FLUOR-50 |
| FLUOR-250 (250ppb Fluorescein Standard – 500mL) | FLUOR-250 |
| FLUOR-500 (500ppb Fluorescein Standard – 500mL) | FLUOR-500 |
| HST-01 (Halogen Stable Triazole Standard 1ppm – 500mL) | 20131 |
| HST-02 (Halogen Stable Triazole Standard 2ppm – 500mL) | 20132 |
| TTA-01 (TolyTriazole Standard 1ppm – 500mL) | 57015 |
| TTA-02 (TolyTriazole Standard 2ppm – 500mL) | 57016 |
| NDSA-100 (100ppb NDSA Standard – 500mL) | NDSA-100 |