ST-730 Series Inline Turbidity Probes

The ST-730 series of turbidity probes are designed for a wide range of turbidity monitoring in various applications. Each device is configured with a specific scale for NTU detection, ranging from as low as 1NTU to as high as 10,000 NTU. These series of probes are more robust and tolerant to fouling, particulate and air bubble challenges compared to alternative turbidity meters designed for relatively clean water applications.

The ST-730 series of probes also offer desired resolution and accuracy in high turbidity applications commonly using Suspended Solids Meters.

Installation

- Industrial Process Control
- Cooling Water
- Raw / Influent Water
- Wastewater Effluent
- Surface Water / Storm Water

Features

- Dual Wavelength: 90° scattering both with LED & IR LED to achieve more reliable and accurate readings in complex flow systems
- Compact design for small footprint similar to an industrial pH probe
- Isolated 4-20mA output embedded. No need for additional transmitter for easy connection to PLC and DCS systems.
- Isolated RS-485 output embedded for easy trouble shooting & calibration
- Interfaces with Pyxis MA-WB wireless adapter for Bluetooth access via uPyxis APP offering probe diagnostics and calibration by smartphone and Desktop

Specifications

	ST-730	ST-730B	ST-730SS	ST-731	ST-735
P/N	53201	53202	ST730SS	53505	53204
Range	0 – 100 NTU	0 – 1,000 NTU	0 – 100 NTU	0 – 10 NTU	0 – 10,000 NTU
Resolution	0.1 NTU	1 NTU	0.1 NTU	0.05 NTU	10 NTU
Accuracy	± 2% of reading				
Method	Nephelometric, with light sources of White LED and IR LED (860nm)				
Power Supply	22 – 26V DC, Power Consumption – 1W				
Outputs	Isolated 4 – 20 mA Analog Output, Isolated RS-485 Digital Output, Supporting MODBUS protocol				
Dimension	Length 6.8 inch, body diameter 1.44 inch				
Weight	0.37 pounds (2.5 lbs for ST-730SS)				
Installation	Custom Tee with ¾ NPT Glue & Thread				
Material	CPVC (304 Stainless Steel for ST-730SS)				
Pressure	Up to 100 psi (ST-730SS - Up to 2.0 MPa (290 PSI) at 65°C (149 °F)				
Temperature	Operation 40 – 120 °F, Storage 20 – 150 °F (ST-730SS - 0° C ~ 40 °C (32~104 °F)				
Cable Length	5 feet, terminated with IP6 connectors. 30 feet, 60 feet extension cables available				
Calibration	Two point calibration against standard solution				
Rating	IP66				
Regulation	CE marked				