

TSS ANALYZER

WATER QUALITY
MONITORING
SOLUTIONS

T SERIES



FEATURES & BENEFITS

- Affordable real-time total suspended solids (TSS) monitoring
- Operator friendly, low maintenance design
- Quick and simple optical measurements
- Long-life LED light source
- Reagent free operation

OVERVIEW

Real Tech's TSS Analyzer provides rapid real-time measurement of total suspended solids (TSS) in water or wastewater. Continuous TSS monitoring can bring significant process control value to many applications where TSS is being removed from the water. Designed to meet the needs of a wide array of site-specific conditions, the T series offers multiple sensor path length selections for the desired measurement range.

MEASUREMENT PRINCIPLE

Real Tech's TSS Analyzer utilizes near infrared light for measurement to minimize or eliminate interference from other absorbing compounds. Benefiting from Real Tech's LED technology, accurate and stable measurements are obtained with minimal maintenance or operator intervention. Real Tech's innovative TSS sensor is advancing water and wastewater management.

MUNICIPAL WASTEWATER
INDUSTRIAL PROCESS WATER
INDUSTRIAL WASTEWATER

REALTECH
INC.



TSS ANALYZER SPECIFICATIONS

CHARACTERISTIC	TECHNICAL DATA	
Model Series	2000 series	4000 series
Path Length	1, 2, 4, 8 mm	25, 50, 100, 150 mm
Parameters	Total Suspended Solids (TSS)	
Range	Depends on model selected. Refer to range chart	
Units	mg/L, ppm	
Sampling Time	10 seconds	
Calibration	Factory parameter calibration allows field adjustment as required.	
Cleaning	In-situ chemical cleaning makes cleaning quick and easy. Automatic chemical cleaning is optional.	
Self-Diagnostics	Detection and diagnosis of internal system fault	
Operator Interface	Five push buttons to control a comprehensive hierarchical menu system	
Display	4 line x 20 character back-lit LCD with LED alarm	
Alarms	Dry contact terminals allow for operator configurable alarms for: high and low set points, low lamp output, leak detected, system fault, etc.	
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system	
Outputs	Self-powered 4-20 mA, RS232 serial for PC	
Wavelength	Near infrared (NIR)	
Light Source	LED	
Flow Rate	300-1000 mL/min	
Pressure Rating	20 PSI maximum	
Fluid Connections	1/4" OD tube push-in fittings	
Wetted Materials	Kynar, Polyethylene, Quartz, SS 316L, Viton	
Electrical	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)	
Ambient Temp.	0 to 45°C (32 to 113°F)	
Water Temp.	0 to 90°C (32 to 194°F) at 21°C (69.8°F) Ambient temperature	
Storage Temp.	-20 to 60°C (-4 to 140°F)	
Enclosure	NEMA 4X, wall mountable	
Weight	22 lb	24 lb
Dimensions	17"H x 14.25"W x 7.5"D	17.75"H x 15.5"W x 6.75"D
Warranty	2-year limited warranty (Extended care packages available)	
Analyzer Upgrades	Cellular Modem, Dual Transmitter	

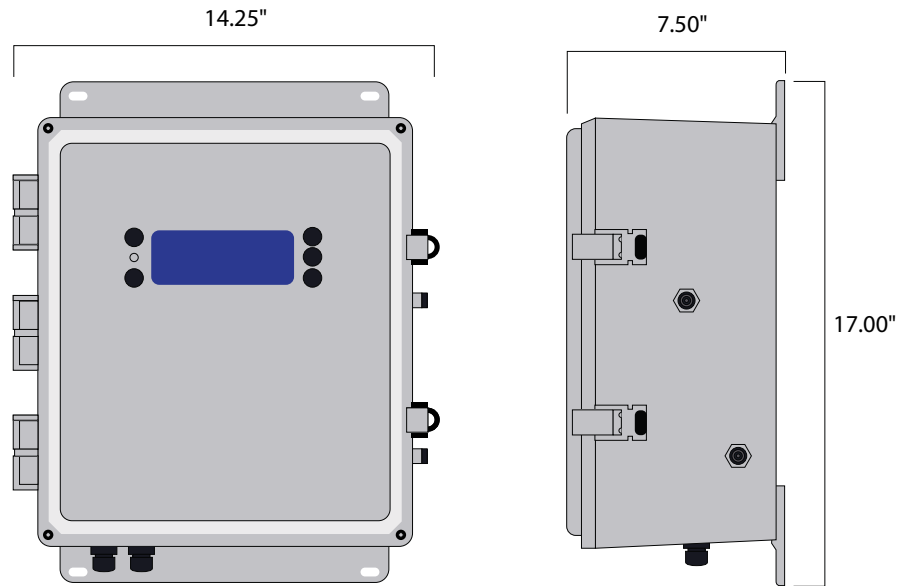
* Technical Specifications are subject to change without notice.

* Water temperature range based on material compatibility only. Contact Real Tech to verify application.

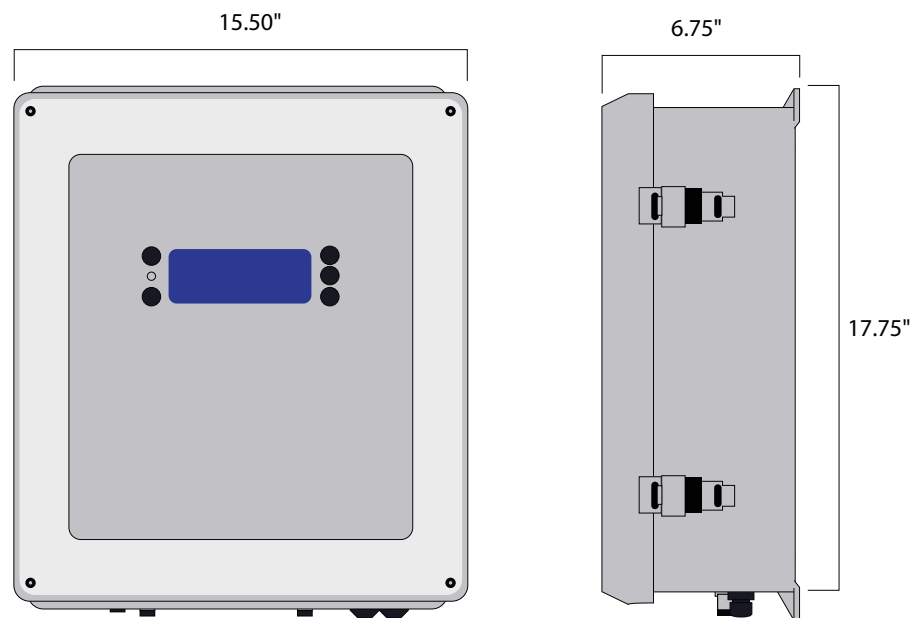
DIMENSIONS

The TSS Analyzer is a bypass cabinet instrument installed directly on a wall, railing or system backboard. Sample is supplied to the analyzer from either a pressurized source or from an open-channel using an accessory pumping system.

DIMENSIONS FOR T2000 SERIES MODELS



DIMENSIONS FOR T4000 SERIES MODELS



ANALYZER SELECTION

MODEL SERIES	DESCRIPTION
2000	Ideal for general water monitoring applications
4000	Ideal for high purity water monitoring applications

ANALYZER MODELS & RANGE

Includes TSS analyzer, flow cell, calibration bottle, dehumidifier and standard power supply.
Automatic chemical cleaning system and additional accessories sold separately.

MODEL#	PATH LENGTH	TSS (mg/L)
T2010	1 mm	0 - 20,000
T2020	2 mm	0 - 10,000
T2040	4 mm	0 - 5,000
T2080	8 mm	0 - 2,500
T4025	25 mm	0 - 800
T4050	50 mm	0 - 400
T4100	100 mm	0 - 200
T4150	150 mm	0 - 150

* Stated ranges are approximate, dependent on industry, site and application - contact Real Tech to confirm model selection

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
UVT-078130	Real Clean System I	Automatic chemical cleaning system for use with 2000 series models
UVT-118010	Real Clean System II	Automatic chemical cleaning system for use with 4000 series models
UVT-079121	Pump Clean System I	Self-priming pump and automatic chemical cleaning for use with 2000 models
UVT-129122	Pump Clean System II	Self-priming pump and automatic chemical cleaning for use with 4000 series models
UVT-078120	Dual Feed I	Dual feed upgrade to monitor two water sample lines with one C series analyzer

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