

TSS SENSOR

WATER QUALITY
MONITORING
SOLUTIONS

TL 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

REAL-TIME MONITORING SOLUTION

TSS Sensor

Real Tech's bypass TSS Sensor provides affordable real-time measurement of total suspended solids (TSS) in water or wastewater. Designed to meet the needs of a wide array of site-specific conditions, the TL series offers multiple sensor path length selections for the desired measurement range.

Controllers and Accessories

Our innovative modular product platform ensures our clients gain the real-time water quality monitoring system that meets their specific demands and budget. With multiple controller and accessory options available such as automatic chemical cleaning systems that lower maintenance while improving system performance, Real Tech provides a total solution for all of your unique water quality monitoring needs.

Liquid Ai Compatible

Our Liquid Ai data services complement our real-time water quality monitoring systems. Calibration Health Monitoring ensures accuracy and reliability are maintained so our clients can have the utmost confidence in their results, while our Remote Monitoring platform enables access to data anywhere, anytime.

MEASUREMENT PRINCIPLE

Real Tech's TSS Sensor 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 SENSOR SPECIFICATIONS

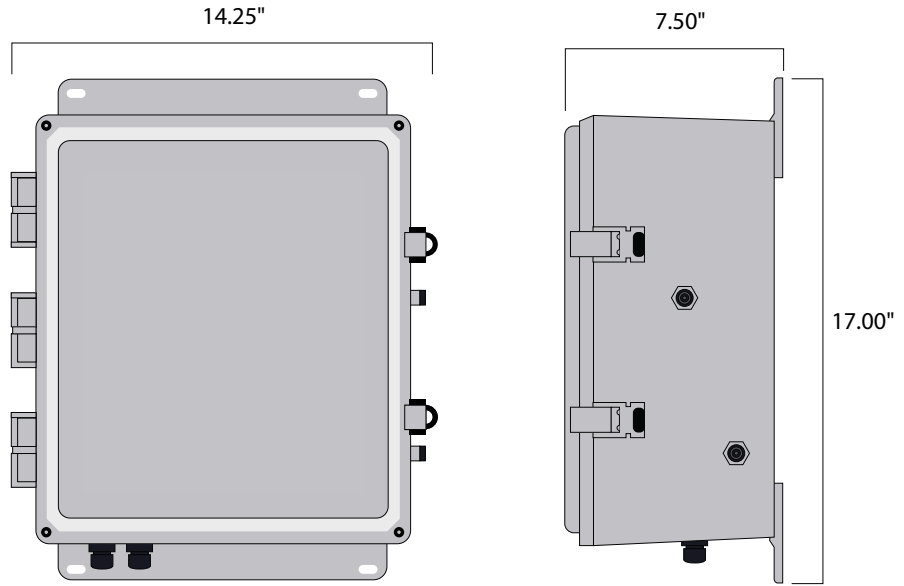
CHARACTERISTIC	TECHNICAL DATA								
	MODEL	TL2010	TL2020	TL2040	TL2080	TL4025	TL4050	TL4100	TL4150
Path Length	1 mm	2 mm	4 mm	8 mm	25 mm	50 mm	100 mm	150 mm	
Parameters	Total Suspended Solids (TSS)								
Range	Depends on model selected. Refer to range chart.								
Units	mg/L, ppm								
Sampling Time	30 seconds								
Calibration	Factory calibrated. Field adjustment of calibration is possible.								
Cleaning	In-situ chemical cleaning makes cleaning quick and easy. Automatic chemical cleaning is optional.								
Self-Diagnostics	Detection and diagnosis of internal system fault								
Alarms	Dry contact terminals allow for operator configurable alarms for: high and low set points, low lamp output, leaks, system fault, etc.								
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system								
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								
Electrical/Comm.	From controller								
Storage Temp.	-20 to 60°C (-4 to 140°F)								
Operating Temp.	0 to 45°C (32 to 113°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)								
Sensor Upgrades	High Temp. Upgrade I, High Temp. Upgrade II								

* Technical Specifications are subject to change without notice.

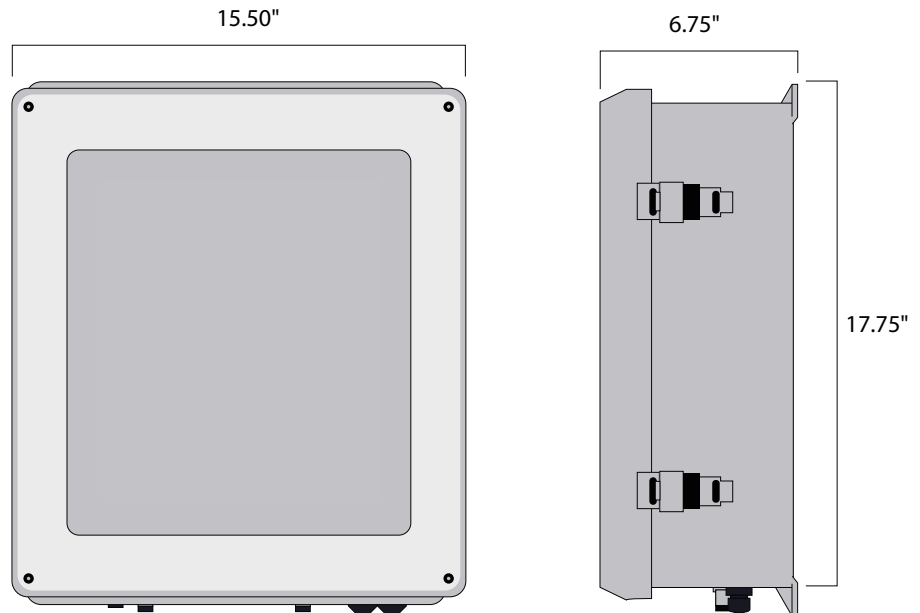
DIMENSIONS

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

DIMENSIONS FOR 2000 SERIES MODELS



DIMENSIONS FOR 4000 SERIES MODELS



SENSOR MODELS & RANGE

Includes TSS sensor, flow cell, calibration bottle and dehumidifier.
Controller and accessories sold separately.

MODEL#	PATH LENGTH	TSS (mg/L)
TL2010	1 mm	0 - 20,000
TL2020	2 mm	0 - 10,000
TL2040	4 mm	0 - 5,000
TL2080	8 mm	0 - 2,500
TL4025	25 mm	0 - 800
TL4050	50 mm	0 - 400
TL4100	100 mm	0 - 200
TL4150	150 mm	0 - 150

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

CONTROLLERS

PRODUCT #	NAME	DESCRIPTION
S-169000	Real Controller	Wall mounted controller with 4-line x 20-character back lit LCD display for sensors
S-11TPC	Real Controller Pro	Wall mounted controller with touch panel PC interface (PC inside cabinet model)
S-11TPCD	Real Controller Pro	Wall mounted controller with touch panel PC interface (PC external on door model)

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 series models
UVT-129122	Pump Clean System II	Self-priming pump and automatic chemical cleaning for use with 4000 series models
S-159124	Air Purge Clean System I	Automatic chemical cleaning, air purge and pump (vertical lift less than 8 ft and pumping distance less than 25ft)
S-179125	Air Purge Clean System II	Automatic chemical cleaning, air purge and booster pump (vertical lift exceeds 8ft or pumping distance exceeds 25 ft)
S-179126	Air Purge Clean System III	Automatic chemical cleaning and air purge. Client supplies pump or water is pressurized
S-169092	Dilution System I	Dilution system, automatic chemical cleaning, air purge and pump (vertical lift less than 8 ft and pumping distance less than 25ft)
S-179093	Dilution System II	Dilution system, automatic chemical cleaning, air purge and booster pump (vertical lift exceeds 8ft or pumping distance exceeds 25 ft)
S-179094	Dilution System III	Dilution system, automatic chemical cleaning and air purge. Client supplies pump or water is pressurized
S-1789121	Dual Feed II	Dual feed option includes Digital I/O module for use with controllers

Real Tech Inc.

1150 Champlain Court,
Whitby, Ontario L1N 6K9 Canada
TF: 1.877.779.2888 T: 1.905.665.6888
info@realtechwater.com

REALTECH
INC.