



TurbiTech UVT Sensor

THE TURBITECH UVT SENSOR USES LIGHT ABSORBANCE TECHNOLOGY TO MEASURE UV TRANSMITTANCE TO EVALUATE LOAD LEVELS OF CONTAMINANTS AND OPTIMIZE UV DISINFECTION PROCESSES. THE TurbiTech UVT ALSO PROVIDES TOTAL SUSPENDED SOLIDS (TSS) MEASUREMENTS FOR BREAKTHROUGH DETECTION.

RADIAL CLEANING

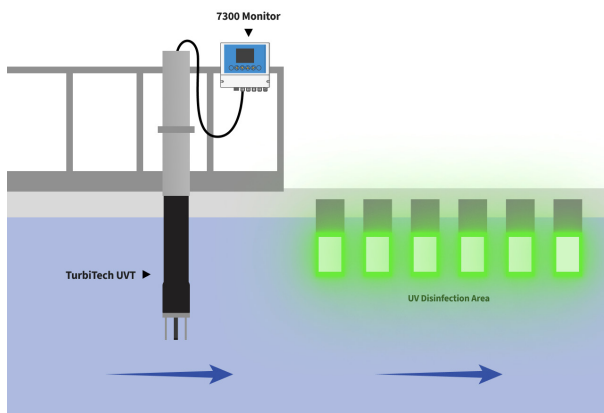
TurbiTech's unique optical cleaning system continuously maintains sensor performance by actively scraping grime from the optics and preventing fouling between readings. Designed for ease of use, the system features user-replaceable seals and scrapers, enabling quick, in-field maintenance without the need for additional equipment such as compressors or pressurized water.

ENHANCED RELIABILITY

Built for durability and long-term performance, TurbiTech UVT features

- Waterproof twist-lock metal connectors that offer significantly longer life than plastic alternatives.
- Sensor housing made from machined, impact-resistant plastic to enhance durability and chemical compatibility.
- Titanium rods that safeguard the quartz optical rods, which are highly resistant to scratching and surface damage.

The TurbiTech UVT has a large sample area volume which minimizes the effect of small debris on the reading accuracy. Additionally, by avoiding the use of epoxy as a primary seal, the design ensures greater reliability in field conditions.



LOW COST OF OWNERSHIP

The system supports long operational cycles, with recommended seal replacement every 3,600 cleaning cycles. This typically equates to about two years in wastewater applications and approximately three years in drinking water environments.

INTEGRATED SOLUTION

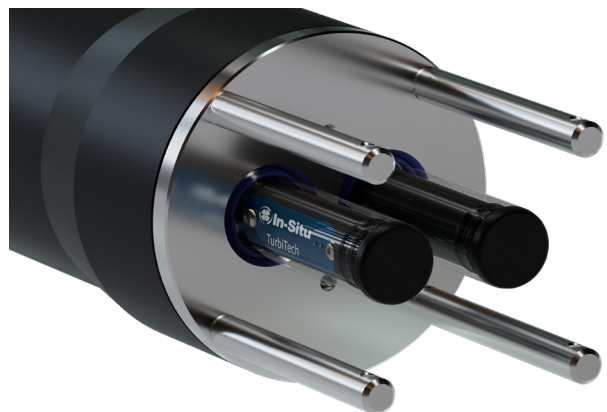
The TurbiTech UVT is part of a complete digital portfolio of process sensors, which connect to the 7300 monitor, to log, display and transmit data to the plant SCADA system.

EASY INSTALLATION

The TurbiTech UVT can be supplied with a FlexTech mounting shaft and bracket for easy installation on a handrail or wall at the point of monitoring. The instrument can also be used with the FC8 Flow Cell, or even threaded into a custom mounting solution.

TWIST-LOCK QUICK RELEASE CABLE

In-Situ's rugged IP68 Twist-Lock cables are designed for convenience and flexibility, with a universal connection that allows seamless swapping between standalone probes and multiparameter instruments, simplifying fieldwork, reducing system costs, and eliminating the need to purchase or install new cables.



Applications:

- Wastewater UV Disinfection
- Raw Water Intake

GENERAL		TURBITECH UVT	
WETTED MATERIALS	Acetal, 316 Stainless Steel, Fused Silica, Polyurethane, Buna , Titanium		
OPERATING TEMPERATURE	-5 to 50°C (non-freezing)		
STORAGE TEMPERATURE	-40 to 65°C		
DIMENSIONS	Length: 397 mm Maximum Diameter: 80 mm		
WEIGHT	3.5 lbs		
MAX PRESSURE RATING	1 bar (14.5 psi)		
COMMUNICATION OPTIONS	Modbus RS485		
SAMPLING INTERVAL	Selectable (see manual for details)		
ENVIRONMENTAL RATING	IP67 without cable installed, IP68 up to 1m with cable installed		
EXTERNAL POWER	8-36 VDC		
COMMUNICATION DEVICE	7300 Monitor		
CABLE OPTIONS	In-Situ Rugged Cable		
COMPLIANCE	CE, FCC, WEE, RoHS		
SOFTWARE SUPPORT	7300 Monitor Interface		

UVT PARAMETER

RANGE	0.00-100.00 % T		
UNITS OF MEASUREMENT	% T		
DEFAULT UNITS	% T		

TSS PARAMETER

ACCURACY	±5% of reading or ±100 mg/L TSS whichever is greater		
LINEARITY	R2>0.999 ¹		
RANGE	0-20,000 mg/L		
UNITS OF MEASUREMENT	ppb, ppm, µg/L, mg/L, g/L, %		
DEFAULT UNITS	mg/L		

NOTES: ¹For serial dilutions of Fuller's Earth Standard

WARRANTY: 2 year warranty