

Online UVT meter continuously tests UVT and UVA



KEY FEATURES:

- Patent pending Ortho-Beam technology
- UV 254nm wavelength
- Continuous automatic calibration
- Significantly reduced need for cleaning
- Turbidity compensation optional
- 4-20mA output
- RS485 with Modbus
- Dry contacts for user configurable alarms
- NEMA 4 enclosure
- Battery back-up option
- Operates from 24 VDC
- User friendly interface
- 2 year warranty
- Affordable

Continuous. The Real UVT Online Monitor continuously tests UV transmittance (UVT) and UV absorbance (UVA) at the 254nm wavelength.

Auto-recalibration. The innovative Ortho-Beam technology allows for continuous automatic calibration during operation, thereby enabling the Real UVT Online to overcome the many challenges faced by other similar instrumentation.

Maintains Accuracy. The Real UVT Online's unique ability to automatically detect and compensate for quartz fouling prevents a loss of accuracy over time and significantly reduces maintenance. In addition, when cleaning is required, the Real UVT Online monitor can automatically notify the user, reducing scheduled cleaning checks. The Real UVT Online is also able to compensate for UV lamp fluctuations, offering improved accuracy.

Connectable. The Real UVT Online has dry-contact terminals for alarms, 4-20mA, RS485 and RS232 connections for PLC communication.

Affordable. All of this combined with Real UVT Online's affordability, make it the ideal solution for any water and wastewater treatment application that requires the testing of organics.

Applications include: ensuring the performance of UV disinfection systems; optimizing coagulant doses; monitoring the potential formation of disinfection-by-products (DBP's) in chlorination applications; assisting with the prevention of the formation of bio-film; ensuring the effectiveness of activated carbon filtration; pollution monitoring and more.

A proven cost effective alternative to organic testing. The Real UVT Online is ideal as a cost effective alternative or supplement to costly and time consuming TOC, DOC, BOD and COD testing.

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THE REAL UVT ONLINE'S PATENT PENDING ORTHO-BEAM TECHNOLOGY PROVIDES
INCREASED ACCURACY, REDUCED MAINTENANCE AND AFFORDABILITY

REAL UVT ONLINE TECHNICAL SPECIFICATIONS

RANGE	0 - 100 % UVT, 0 - 3 UVA
ACCURACY	± 1.0 % UVT
REPEATABILITY	± 0.1 % UVT
RESOLUTION	0.1 % UVT, 0.0001 UVA
UNITS	Operator configurable: cm ⁻¹ , m ⁻¹
PATH LENGTH	2cm
SAMPLING TIME	4 seconds
FLOW RATE	0.75 L / min
RESPONSE TIME	5 seconds
CALIBRATION	Ortho-Beam technology allows continuous automatic calibration during operation
CLEANING	<ul style="list-style-type: none">• Significantly reduced cleaning requirements due to Ortho-Beam technology• Automatic cleaning optional
SELF DIAGNOSTICS	Continuous detection of excessive fouling, lamp output, and electrical fault
OPERATOR INTERFACE	Five quick select pushbuttons, four menu control buttons and a numeric keypad
DISPLAY	2 line x 20 character backlit LCD with numeric keypad
ALARMS	Dry-contact terminals allow operator configurable alarms for: <ul style="list-style-type: none">• high and low readings• low lamp output• excessive fouling (cleaning required)• electrical fault detection
MEMORY	Operator configurable memory stores sample readings
OUTPUTS	<ul style="list-style-type: none">• 4-20 mA output configurable to either UVT or UVA• RS485 with Modbus protocol (other PLC communication protocols optional)• RS232 for configuration via PC
WAVELENGTH	253.7 nm
LIGHT SOURCE	Low pressure mercury UV lamp
LAMP LIFE	2 years
COMPENSATION	Turbidity compensation optional
DIMENSIONS	14"h x 12"h x 8"h
ENCLOSURE	Nema 4, wall mountable
FLUID CONNECTIONS	1/4" tube compression 316 stainless
ELECTRICAL	24 VDC with battery backup optional
STORAGE TEMP	-20 to 60°C (-4 to 140°F)
OPERATING TEMP	0 to 45°C (32 to 113°F)
WARRANTY	2 year limited warranty

PERFORM UV 254NM ORGANIC TESTING CONTINUOUSLY!

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