



REAL UV254 PROBE

M1500



Specification Sheet

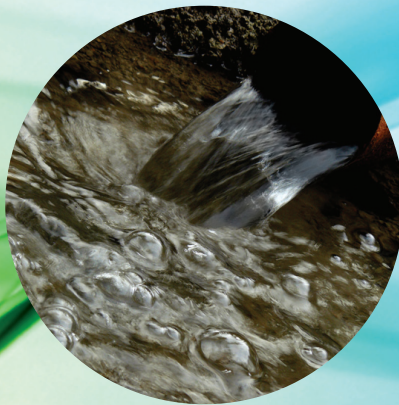
REAL UV254 PROBE ANALYZER

The UV254 Probe analyzer was designed with wastewater applications in mind. The robust design and innovative Ortho-Beam technology provide accurate and stable readings in the most complex environments. The custom zero feature lowers maintenance, allowing the instrument to be calibrated without removing the probe from the channel. Combined with an automatic compressed air cleaning system, the system surpasses the competition in performance and ease of use.



APPLICATIONS

- Source water monitoring
- Wastewater UV disinfection performance
- and more.....



“ WE APPRECIATE THE EXCELLENT SERVICE RECEIVED BY THE REAL TECH TEAM. THE TECHNOLOGY OFFERED OFFERS RELIABLE OPERATION AS WELL AS MINIMAL MAINTENANCE. OVERALL, EXCELLENT TECHNOLOGY, EXCELLENT PRICE AND EXCELLENT SERVICE.”

Jean-Luc Paradis, Municipal Director | Polychem

Features and Benefits

- Real-time UV254 or UVT organics analysis
- Robust submersible probe for in-situ measurement
- Extremely stable output with Ortho-Beam technology
- Innovative *Custom Calibration* feature limits maintenance
- Easy to operate, wall mounted controller

Real Probe Controller

The wall mounted Real Probe Controller offers a 4 line by 20 character backlit LCD display and a 5 push button comprehensive hierarchical menu system for control of the submersed probe. The controller provides self-powered 4-20mA outputs and RS232 serial outputs for PC.

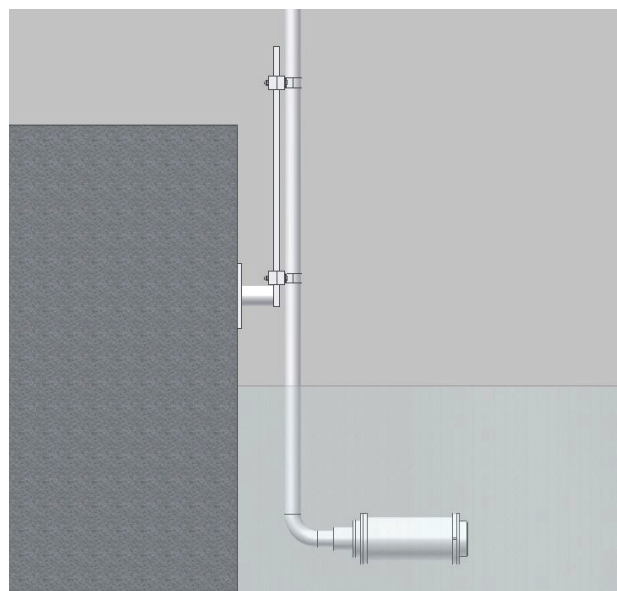


Real Air Cleaning Systems

The automatic compressed Real Air Cleaning Systems offer the most effective cleaning method to remove fouling and build up from the quartz windows. The cleaning systems are installed inside the controller cabinet, supplying burst of compressed air on timed intervals.

Mounting Kit

The stainless steel mounting kit includes a mounting bracket and mounting arm that easily attaches to the probe head. 4 and 8 foot options are available.



Ortho-Beam Technology

Real Tech's patented Ortho-Beam technology uses an innovative 10 mm x 20 mm rotational measurement that provides compensation for lamp fluctuation and drift as well as fouling that occurs on the quartz windows. The result is an extremely accurate and stable measurement.

Custom Calibration

The custom calibration feature allows the submersed probe to be zeroed without dismounting from the channel. A grab sample is taken from the channel for UVT analysis using the P200 meter or equivalent. The UVT value from the meter is then entered under the *Custom Calibration* tab in the menu system. The calibration is then updated automatically.

TAKE CONTROL, KNOW WHAT'S IN YOUR WATER

Table 1: Models and Measurement Range

Model	Path Length	UVT (%)	UVA (abs/cm)
M1500	10 mm x 20 mm	15-100	0-1

Table 2: Technical Specifications

Characteristic	Technical Data
Units	Abs/cm or %
Accuracy	+/- 0.5 % FS
Resolution	0.001 UVA or 0.1 %
Sampling Time	10 seconds
Calibration	Custom zero to known UVT sample or DI calibration
Cleaning	Optional automatic pressurized air cleaning system
Self-Diagnostics	Continuous detection of leaks, lamp output, humidity, temperature and electrical fault
Operator Interface	Real Probe Controller - Push button driver comprehensive hierarchical menu system. RS232/USB interface to PC based Windows application
Display	Real Probe Controller - 4 line x 20 character backlit LCD
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 desiccant pack
Outputs	Real Probe Controller - Self-powered 4-20 mA output RS232/USB interface for datalogging via PC
Wavelength	253.7 nm
Light Source	Low-pressure mercury UV lamp / UV LED
Lamp Life	2 years
Dimensions	4" D x 10" L (Real Probe Controller - 17"H x 14"W x 8"D)
Enclosure	Stainless steel with max depth of 36" (Real Probe Controller - NEMA 4, wall mountable)
Electrical	Real Probe Controller - 24 VDC 120W power adapter included (accepts 90-250VAC 50/60Hz)
Storage Temp.	-20 to 60°C (-4 to 140°F)
Operating Temp.	0 to 45°C (32 to 113°F)
Weight	8 lbs (Real Probe Controller - 24 lbs)
Warranty	2-year limited warranty (Extended care packages available)
Technology	Ortho-Beam
Options	Real Probe Controller, Real Air Clean System, Mounting Kit, Real UV254 Meter

* Technical Specifications are subject to change without notice.