



## UVAS plus sc UV Sensor for organic load (immersion/bypass), 2 mm path length

**Product #:** LXV418.99.20002  
**ZAR Price:** Contact Hach  
**Call for ship date**

Continuous UV 254 Absorbance/Transmittance measurements can be used to protect plant treatment processes from high organic loads. Analysis range of 2 mm probe is 0 - 1500 m<sup>-1</sup>. Use for the following applications: protection of treatment plants from industrial dischargers, monitoring shock loads from internal plant processes, control of activated sludge processes, control methanol feed in BNR based on organic loading, final effluent monitoring and monitoring efficiency of UV disinfection processes.

### Continuous, Automatic Early Warning Systems

Use the Hach UVAS plus sc UV Absorbance/Transmittance Sensor to continuously protect plant treatment processes from high influent organic loads. Operators can use the continuous readings of UV absorbance or transmission to watch for sudden changes in organic load that would require alternate treatment procedures.

### Control Activated Sludge Processes

Activated sludge processes require precise balancing of organic load, aeration, and nutrients. Continuous trending of the organics in the system with the UVAS plus sc sensor can help operators know how to balance other factors resulting in cost and time savings.

### Self-cleaning Wiper System

With the UVAS plus sc sensor submerged in the sample stream, the detector windows are automatically cleaned by a built-in wiper that eliminates surface films or particles that can diminish accuracy.

### Monitor Efficiency of UV Disinfection Process

UV light transmittance (UVT) is critical in the delivery of dose in a UV reactor. The delivered dose is determined by, among other things, the UVT of the source water, the intensity of the UV lamps, and the flow rate of the water source. UVT can be affected by many factors, from a simple change in the seasons to storm events. Potential changes in UVT should be considered in a UV disinfection system for optimized dose delivery. Hach's UVAS plus sc is designed to provide continuous UVT measurement of pre-disinfected source water. Operational costs related to sampling for UVT may be reduced with continuous online measurement. Data can immediately be incorporated into the operation in real time.

### Self Diagnostics and Easy Maintenance

Diagnostic routines built into the UVAS plus sc sensor reduce the need for extensive calibration and maintenance. Only semi-yearly inspection and replacement of the wiper is needed.

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## Specifications

Application:	Aeration basin
Cable Length:	10 m fixed cable at sensor
Configurations:	Sensor only
Controller:	Sensor only
Diameter:	70 mm
Length:	333 mm
Maintenance Requirements:	1 h/month for standard applications
Material:	Sensor enclosure: stainless steel 316, 1.4571, single sealed body Wiper axle: stainless steel 1.4104

	Cable gland: stainless steel 1.4305
	Cable gland seal: PVDF
	Profile carrier: stainless steel 1.4310
	Wiper arm: stainless steel 1.4581
	Wiper profile: Silicone
	Measuring window: Suprasil (quartz glass)
Measurement method:	UV absorption measurement (unique 2-beam technique)
	SAC 254 in accordance with DIN 38404 C3
Measuring Interval:	≥ 1 min
Measuring range:	0 - 1500 1/m
Operating temperature range:	2 - 40 °C
Parameter:	SAC
Path Length:	2 mm
Pressure Range:	<lte/> 0.5 bar
Reference Wavelength:	550 nm
Service Interval:	6 months
User Maintenance:	1 h/month
Warranty:	12 months
Weight:	3.6 kg
What's included?:	UVAS plus sc probe, user manual

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## What's included?

UVAS plus sc probe, user manual

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## Required Accessories

- SC1000 Display Module, Multi-Parameter Universal Controller (Item LXV402.99.00002)
- SC1000 Probe Module, 6 Sensor Connectors, Prognosys, Modbus 485, 100-240 VAC with Conduits (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 Sensor Connectors, Prognosys, 100-240 VAC with Conduits (Item LXV400.99.1G092)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)