



UV Photometer SubMissio



Fig. 1: Dip probe of the UV photometer SubMissio

The UV photometer SubMissio is a 2-beam photometer with dip probe for monitoring the absorption of water at the UV-C wavelength of 254 nm. A number of organic impurities, ozone, turbidity and further substances can be sensitively detected using this short measuring wavelength.

The 2-beam procedure compensates for aging of the lamp and thus serves for accurate measuring results. The photometer uses an optical path length of 10 mm. Operation of the photometer is menu-controlled with a 4 line display. Measuring data are shown on the display. They are also steadily transferred to an analog and a digital interface. Two adjustable alarm thresholds are available for the system controller via relay contacts. The UV photometer requires low maintenance. The lamp should be changed every 2,000 hours, and the optical windows should be cleaned and dried after each use.

Applications

- Detection of organic impurities, ozone and turbidity
- Monitoring of waters, waste water treatment, industrial waste water, process water

Technical Data

Wavelength:	254 nm
Measuring range:	0 - 100% transmission
Resolution:	0.1% transmission
Display:	Transmission and absorbance
Measuring time:	2.2 s
Optical path length:	10 mm

Dip probe

Dimensions:	Ø 150 mm, h 227 mm
Weight:	16 kg
Max. pressure:	8 bar

Display

Dimensions:	400 x 250 x 360 mm
Weight:	ca. 9 kg
Mains:	230 VAC, 50 Hz
Power consumption:	< 20 W
Lamp:	Hg low pressure Ozone-free

Lamp lifetime:	typical 2,000 hours
Operation temp.:	10 to 40 °C
Humidity:	< 80%

Housing protection:	IP65
Signal current:	4 to 20 mA
Relay contacts:	2x 250V 1A
Interface:	RS232

Part numbers

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830210