



UV Photometer FlowMissio



Fig. 1: UV photometer FlowMissio

The UV photometer FlowMissio is a 2-beam photometer with pressurized water flow-through cell 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. Referencing to an empty cell or a reference liquid is done by the software. The photometer uses an optical path length of 50 mm. Operation of the photometer is menu-controlled with a 4 line display. Measuring data are shown on the display. They are also 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 flow-through cell should be cleaned regularly depending on the water quality.

Applications

- Detection of organic impurities, ozone and turbidity
- Monitoring of water purification systems

Technical Data

Wavelength:	254 nm
Measuring range:	0 - 100% transmission
Resolution:	0.1%
Display:	Transmission and absorbance
Measuring time:	2.2 s
Measuring cell:	50 mm, pressure-tight
Dimensions:	400 x 250 x 360 mm
Weight:	about 12 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% Non-condensing
Housing protection:	IP65
Signal current:	4 to 20 mA
Relay contacts:	2x 250V 1A

Part number

UV photometer FlowMissio 830220

Options:

- Other measuring path lengths
- Other wavelengths
- Cells for other liquids