

8.1 Specifications

Technical specifications

Parameter	Specification
Supply voltage	100-240 V~
Maximum voltage fluctuation	± 10% from the nominal voltage
Frequency	50/60 Hz
Maximum power	35 VA
Light source	Xenon flash lamp
Lamp lifetime	> 4000 hours
Control	Stand alone or via Remote connector
Analog output	0-1 V full scale, overrange function
Digital inputs	5 V, 1 mA current sinking, lamp on/off, autozero, event mark
Display	2 rows with 20 characters each
Dimensions (H x W x D)	200 x 160 x 262 mm without cell holder 200 x 300 x 262 mm with cell holder
Weight	5.1 kg
Acoustic noise level	< 70 dB A
Enclosure protective class	IP 20

Environmental requirements

Parameter	Requirement
Ambient temperature	4°C to 40°C
Relative humidity tolerance (non-condensing)	20% to 95%
Atmospheric pressure	84 to 106 kPa (840 to 1060 mbar)

Operating data

Parameter	Specification
Wavelength range	200-700 nm, changeable wavelength filter units
Filter center wavelength accuracy	±2 nm
Filter bandwidth	< 10 nm
Linearity	< 5% deviation up to 2 AU at 280 nm with ferric sulphate in 0.1 M sulphuric acid
Short term noise (0.5–1 min) ^{1, 2}	< 2×10^{-4} AU at 280 nm
Long term noise (1–10 min) ^{1, 2}	< 2×10^{-4} AU at 280 nm
Drift ²	< 2×10^{-4} AU/h at 280 nm

¹ Measured with water at 1 mL/min, time constant 1 second, 10 mm flow cell.

² Typical values at room temperature after 2 hours with lamp on.

UV flow cell, 2 and 10 mm

Parameter	Specification
Recommended maximum flow rate	100 mL/min
Maximum pressure	2 MPa (20 bar, 290 psi)
Backpressure	Maximum 0.5 bar at 2 mL/min with water at 25°C
Liquid temperature range	4°C to 40°C
Optical path length, 2 mm cell	2 mm
Optical path length, 10 mm cell	10 mm
Cell volume, 2 mm cell	2 µL
Cell volume, 10 mm cell	8 µL
Wetted materials	PTFE (polytetrafluoroethylene) PEEK (polyetheretherketone) Titanium (palladium alloy) Quartz (synthetic fused silica)