

ACQUITY UPLC Fluorescence Detector

The Waters™ ACQUITY™ UPLC™ Fluorescence (FLR) Detector is a multi-channel, multi-wavelength fluorescence detector designed for use in the ACQUITY UPLC H-Class PLUS Series, I-Class PLUS Series, and PREMIER™ systems. Optimized for UltraPerformance Liquid Chromatography (UPLC), the FLR Detector features an axially illuminated, low-volume flow cell design that minimizes stray light while maximizing light throughput – enhancing the quality of the fluorescence signal. Improved low-noise electronics, support for data rates up to 80 Hz, and 3-D scanning capability results in a detector that brings unsurpassed sensitivity and selectivity to UPLC analyses. For ACQUITY PREMIER, a new flow cell featuring PEEK tubing is available to complement the bioinert HPS technology available with ACQUITY PREMIER systems.

OPERATING SPECIFICATIONS

Wavelength range	200 to 890 nm (excitation) 210 to 900 nm (emission)
Bandwidth	20 nm
Wavelength accuracy	±3 nm
Wavelength repeatability	±0.25 nm
Sensitivity*	S/N >1000 (Raman spectrum of H ₂ O)
Measurement range	0.001 to 10,000 EU
Data acquisition	Up to 80 Hz
Unattended operation	Leak sensors, full diagnostic data captured through console software

OPTICAL COMPONENT SPECIFICATIONS

Light source	Hg/Xe arc lamp (1000-hour warranty)
Flow cell design	Axially illuminated
Cell volume	<2 µL
Pressure limit	500 psi
Wetted materials	Fused silica, FEP, PEEK

ELECTRICAL SPECIFICATIONS

Power requirements	100 to 240 VAC
Line frequency	50 to 60 Hz
Power consumption	280 VA (nominal)
Outputs	Four outputs (two analog and two event)
Inputs	Four event inputs

*Conditions: 2 Hz, 2s FTC, Ex 416 nm, Em 365 nm, and single λ mode.

OPTICAL COMPONENT SPECIFICATIONS

Dimensions	Width: 34.3 cm (13.5 in.)
	Height: 21.6 cm (8.5 in.)
	Depth: 50.8 cm (20.0 in.)
Weight	30 pounds (13.61 kg)
Operating temperature	4 to 40 °C (39 to 104 °F)
Operating humidity	<95%, Non-Condensing
Compliance	IVD, CE Mark, CSA, C-tick, and UL

ORDERING INFORMATION

PART NUMBER

ACQUITY UPLC FLR Detector	176015029
ACQUITY PREMIER FLR Detector	176018010

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