HAMAMATSU

UV POWER METERS C6080 SERIES

A Wide Lineup of 248 nm, 365 nm and 436 nm Type

The C6080 series is a compact UV power meter specifically designed to measure the intensity of UV radiation emitted from the light guide output end of a UV spot light source. The C6080 uses a UV sensor that exhibits stable sensitivity even after long exposure to UV radiation, allowing reliable measurement with good repeatability. As a useful option, an adapter for clamping the light guide output end is also available.

FEATURES

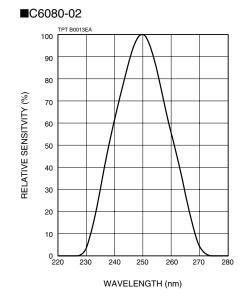
- ●Compact and lightweight
- Excellent accuracy
- ●Absolute value display of UV intensity (mW/cm²)
- ●Easy-to-read digital display
- Sensor head isolated from display unit allows flexible measurement.
- ●200-hours continuous operation by 9 V battery (006P)
- External output (analog output)

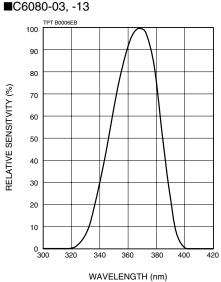
John Martin

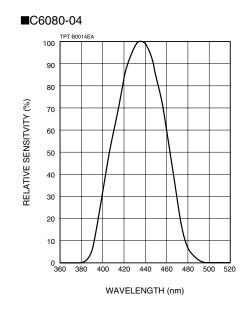
APPLICATIONS

- UV intensity measurement of UV curing and UV ink light sources
- UV intensity measurement of various UV spot light sources

Figure 1: Spectral Response Characteristics







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SPECIFICATIONS

Parameter		C6080-02	C6080-03	C6080-04	C6080-13	Unit
Sensitive Area		φ6	φ1			mm
Sensitive Wavelength Range		230 to 270	320 to 400	380 to 480	320 to 400	nm
Calibrated Wavelength		248	365	436	365	nm
Optical Power	SENS. L	1 to 1999 10 to 19990			mW/cm ²	
Measurement Range *	SENS. H	0.1 to 199.9 1 to 1		1 to 1999	IIIVV/CIII ²	
Display		3⋅1/2 digits Liquid crystal digital display				_
Sampling Interval		2.5				times/s
External Output (analog)		1.000 V per liquid crystal display "1000"				_
Operating Temperature Range		0 to +50				°C
Power Requirement		9 V battery (006P) 1 piece				_
Current Consumption		2				mA Max.
Weight	Sensor Head (including cable)	Approx. 100 Approx. 200			g	
	Display Unit (including battery)					
Carrying Case Size $(W \times H \times D)$		330 × 70 × 230				mm

^{*} Sensitivity is calibrated at the specific calibration wavelength, so the display value may vary when used to measure light source emissions on a different spectrum. This is the recommended calibration period (every 1 year) when high reliability is required. Please contact to our sales office for re-calibration fee.

Figure 2: Dimensional Outline (Unit: mm)

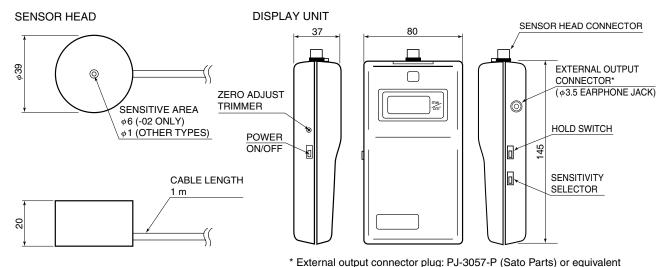
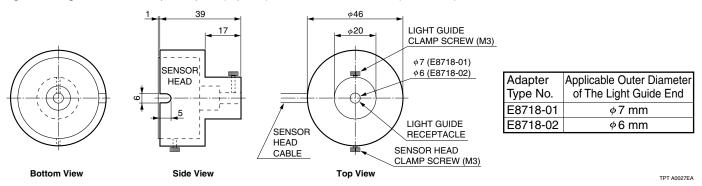


Figure 3: Light Guide Clamp Adapter (Option) Dimensional Outline (Unit: mm)



^{*} Adapters for furcated light guide are also available.

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^{*} This adapter is designed to measure UV intensity under constant conditions, at a point 10 mm away from the light guide output end.