APPLIED SCIENTIFIC INSTRUMENTATION

PMT-200 Photomultiplier

Various mounting configurations available including female C-Mount a flat flange mount with two 3 mm bolt holes 32 mm apart.

Features

- High sensitivity
- Manual or externally-programmable PMT gain
- Automatic overexposure shutdown
- Wide dynamic range
- Easy to use
- Works with the TG-1000 controller
- Supports two PMT tubes
- Manual control as well as PC control thru
- RS-232 serial communication

Specifications

Sensor (Standard)	Hamamatsu H5784-03, H10722, H10723
Bandwidth	DC to 20kHz
Spectral Response	185 to 920 nm
Sensitivity (at 420 nm)	150 V/nW to 260V/nW
Output	0 to 4 V

Control voltage +0.8 V (In the output signal, there is a shot noise associated with the signal.)

H10722 Series Characteristics (at +25° C)

Parameter	-110, -113	-210	-01, -04	-20	Unit
Radiant Sensitivity	220	260	150	150	V/W
Peak Sensitivity Wavelength	400	400	400	400	
Settling Time			10		
Effective Area			ø8		s
Ripple Noise (peak to peak)			0.5		mm
Frequency Band-width (-3dB)			DC to 20 kHz		V/A

For more information visite www.hamamatsu.com. Complete Datasheet.

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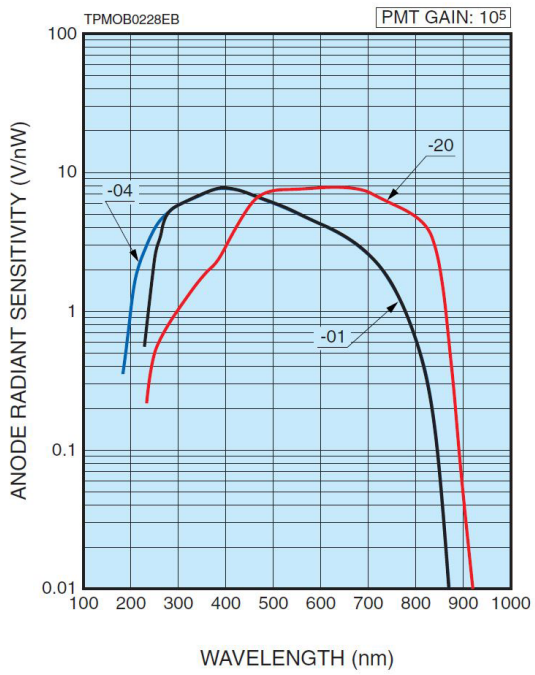
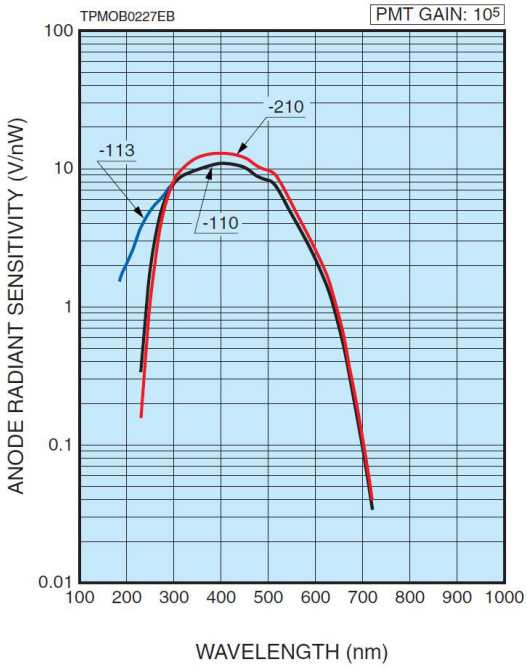
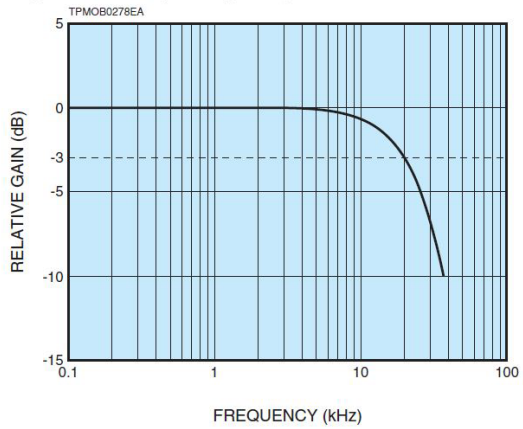
Typical Spectral Response







Supported Photosensor Modules:

Type	Type Serie No.	Spectral Response (200 400 600 800(nm))	Frequency Response (DC 100 200(kHz))	Photosensitive Area (mm)	Outside Size: Cubic Ratio	Outside Size: Dimensions (mm)	Input Voltage (V)	Feedback Resistance Remarks
Voltage Output	H10722	230 to 920	0 to 20	ø8	1.3	22 x 22 x 60	+/-5	1 MΩ
	H10723	230 to 920	0 to 200	ø8	1.4	51 x 24 x 25	+/-5	100 KΩ
	H9306	185 to 900	0 to 20	3.7 x 13	2.3	19 x 53 x 51	+/-15	1 MΩ
	H9307	185 to 900	0 to 200	3.7 x 13	2.3	19 x 53 x 51	+/-15	100 KΩ
	H11462	185 to 900	20 to 200	4 x 20	8.0	38 x 95 x 50	+/-5	1 MΩ (20k Hz) 100 KΩ (200 kHz)
	H7827	300 to 850	20 to 200	ø15	3.2	26 x 50 x 56	+/-15	1 MΩ (20k Hz) 100 KΩ (200 kHz)
	H10492	300 to 850	20 to 200 to 8000	ø22	5.1	ø35 x 120	+/-15	1 MΩ (20 kHz) 100 KΩ (200 kHz, 8 MHz)
	H10493	185 to 850	20 200 8000	ø25	8.2	ø35 x 192	+/-15	1 MΩ (20 kHz) 100 KΩ (200 kHz, 8 MHz)