1.1.1.3 Special Photodiode Sensors

3µW to 1W

Features

- PD300-MS for measurement of optical intensity after the microscope objective.
- Low angular dependence for high N.A. objectives.
- Can be used with air, water or oil immersion objectives.

PD300-MS

Model	PD300-MS	
Use	**Measurement of light intensity at microscope slide plane**	
Detector Type	Silicon with filter	
Aperture	18x18mm	
Spectral Range nm	350-1100	
Power Range	3µW to 1W (see wavelength dependency below)	
Power Scales	100µW to 1W and dBm	
Resolution µW	0.1	
Calibration Uncertainty nm	±1.1% 430-1000 [b]	
Maximum Power vs. Wavelength	Wavelength, nm	Power Range
	350 - 650	6µW to 1W
	650 - 800	3µW to 800mW
	800 - 1000	3µW to 600mW
	>1000	6µW to 700mW
Accuracy (including errors due to temp. variations)		
% error vs Wavelength nm [a]	±7 350 - 400	
	±5 400 - 1100	
Linearity	1%	
Additional Error with Converging Beam	3% for N.A. 0.9	
Damage Threshold W/cm²	20	
Noise Level	300nW at 350nm, 150nW at 960nm	
Response Time with Meter s	0.2	
Compliance	CE, UKCA, China RoHS	
Version		
Part Number	**7Z02482**	

Note: (a) For beam centered on sensor ±2 mm
(b) For calibration uncertainty of wavelengths outside of this range see table on page 24

PD300-MS