

LP-01 Series: Radiant Power Detectors with OP.DI.MA. Integrating Sphere

Ordering Information & typical Specifications												
Model	λresp	Wavelength	Typical Sensitivity		Sphere		cable	lmax.	фтах	Operation	plug	package
	Photodiode	Range	633 nm	1300 nm	Port	Diameter	m	mA	mW	Temp.		page
LP-0101	InGaAs	800-1800 nm	-	0.4 mA/W	5 mm Ø	UPK-30-L	2	1	500	5-40°C	1,2,4	91
LP-0102	Si & InGaAs	350-1800 nm	0.6 A/W	0.4 mA/W	5 mm Ø	UPK-30-L	2	1	500	5-40°C	1,2,4	91
LP-0103	Si	350-1100 nm	0.6 mA/W	-	5 mm Ø	UPK-30-L	2	1	500	5-40°C	1,2,4	91
LP-0201	Si LP	400-1100 nm	30 mA/W	-	2 mm Ø	UPK-8-L	2	1	100	5-40°C	1,2,4	91
LP-01Z-01	Additional detector port for UPK-30-L integrating sphere of LP-01 for PD-11 type detectors or UFC-11/SMA socket											
UFC-11/FC	FC-type fiber socket adapter for the measurement port of LP-01 detectors with UPK-30-L integrating sphere											
UFC-11/SC	SC-type fiber socket adapter for the measurement port of LP-01 detectors with UPK-30-L integrating sphere											
UFC-11/ST	ST-type fiber socket adapter for the measurement port of LP-01 detectors with UPK-30-L integrating sphere											
UFC-11/SMA	SMA-type fiber socket adapter for the measurement port of LP-01 detectors with UPK-30-L integrating sphere											
K-LP01xx	Calibration of spectral radiant power sensitivity in A/W nm. xx = detector model number											
K-LP0201	Calibration of spectral radiant power sensitivity in A/W nm											
KDW-S1	Calibration of spectral radiant power sensitivity at one or a chain of wavelength in combination with accessory											

LP-99 Series: Radiant Power Detectors with Barium Sulfate Integrating Sphere

The LP-99 detectors are designed for general radiant power measurements of laser diodes and lasers in the wavelength range from 400 to 1700 nm.

The use of a 50 mm diameter integrating sphere as light collector offers a large 12.7 diameter measurement port and negates the need for using large diameter photodiodes. Small size photodiodes offer lower cost, higher shunt resistance and low capacitance. Also through its multiple reflectance characteristic, integrating spheres can reduce polarization effects, the risk of beam misalignment, signal bounce-back and PTD satura-

KDW-S1



tion. Barium sulfate is a cost effective white diffuse coating for larger diameter integrating spheres. It's 97 % reflectance in the visible spectral range exhibits low attenuation making high sensitivity sphere based detectors

possible. The LP-99 detectors are built around a 50 mm diameter sphere with a 12.5 mm aperture. A unique Gigahertz-Optik baffle design offers a large light acceptance angle without direct detector irradiation.



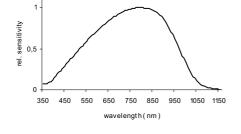
LP-9910

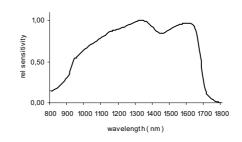
The LP-9910 is supplied with a Si photodiode covering the 400 to 1100 nm wavelength range.

The LP-9920 is supplied with an InGaAs photodiode for the 800 to 1800 nm range.

The LP-9930 offers both a Si and InGaAs photodiode for broadband use from 400 to 1800 nm with a 2-channel optometer.

The open port configuration is standard for direct measurement of laser diodes, LEDs or lasers. **Calibration** of spectral radiant power sensitivity in A/W nm is provided.





LP-9910 LP-9920

Ordering Information & typical Specifications												
Model	λresp	Wavelength	Typical Sensitivity		Sphere		cable	Imax.	фmаx	Operation	plug	package
	Photodiode	Range	633 nm	1300 nm	Port	Diameter	m	mA	mW	Temp.		page
LP-9910	Si	400-1100 nm	2.5 mA/W	-	12.5 mm Ø	UPB-50-L	2	1	500	5-40°C	1,2,4	91
LP-9920	InGaAs	800-1800 nm	-	0.3 mA/W	12.5 mm Ø	UPB-50-L	2	1	500	5-40°C	1,2,4	91
LP-9930	Si & InGaAs	400-1800 nm	2.5 mA/W	0.3 mA/W	12.5 mm Ø	UPB-50-L	2	1	500	5-40°C	1,2,4	91
LP-99Z-01	Additional detector port for UPB-50-L integrating sphere of LP-99 for PD-11 type detectors or UFC-11/SMA socket											
K-LP99xx	Calibration of spectral radiant power sensitivity in A/W nm. xx = detector model number											

Calibration of spectral radiant power sensitivity at one or multiple wavelengths in combination with accessory components