

LUMILOOP



—— LSPM 1.0 ——
10kHz - 6GHz
Triple High-Speed Powermeter

The LSPM 1.0 Triple High-Speed Powermeter is a three channel, high speed, high accuracy and high dynamic range RF field probe. Its frequency range is 10 kHz – 6 GHz.

Compensation of linearity, frequency and an actively controlled internal temperature guarantee accurate measurements from less than -50 dBm to at least 20 dBm. A dynamic range of 100 dB is achieved for many frequencies.

The LSPM 1.0 Triple High-Speed Powermeter's high sampling rate allows for high resolution time-domain signal analysis. The power meter can be synchronized with signal generators in order to realize high resolution pulse analysis at 200 MSamples/s resolution.

The LSPM 1.0 Triple High-Speed Powermeter can be combined seamlessly with LUMILOOP's LSProbe E-Field Probes to accelerate standard EMC measurements such as IEC 61000-4-3 and 61000-4-21 by a factor of more than 100 over traditional setups.

Specifications (preliminary)

Frequency Range	10 kHz ... 6 GHz
Analog Rise Time	
Low Band, low bandwidth	1.9 ms
Low Band, high bandwidth	770 ns
High Band	330 ns
Minimum Pulse Width	250 ns
Resolution	<0.01 dB
VSWR	<1.2
Sampling Rate	4 MSample/s
Measurement Range	
Low Band	-60 dBm ... >25 dBm
High Band	-50 dBm ... >20 dBm
Damage Level	>30 dBm
Dynamic Range (typical)	
Low Band	>100 dB
High Band up to 4 GHz	>90 dB
High Band above 4 GHz	>80 dB
Amplitude Accuracy @ 0 dBm	0.2 dB
Linearity Error	<0.1 dB
Temperature Stability	0.1 dB
PC Interface	USB 2.0
Application Software	LSPM TCP Server, LSPM GUI
Trigger Voltage	5 V
Trigger Connector	BNC
Input Voltage	5 V ± 5 %
Input Current	<3 A
Ambient Temperature	10 °C ... 40 °C
Dimensions (W x D x H)	165 x 142 x 61 mm ³
Certifications	CE



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