LUMILOOP

LSPM 1.0

9kHz – 6(12)GHz
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 Powermeter. Single and dual channel versions are available as well. Its frequency range is 9 kHz – 6 GHz. Operation up to 12 GHz is supported with reduced performance.

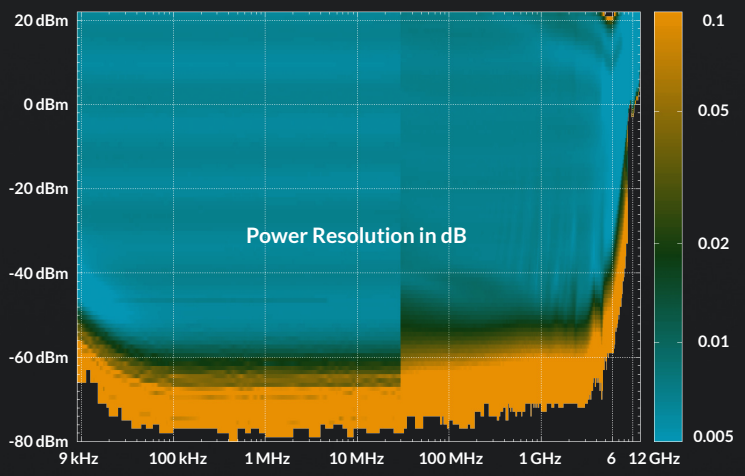
Compensation of linearity, frequency and an actively controlled power sensor temperature guarantee accurate measurements from less than -50 dBm to at least 20 dBm. A dynamic range of 100 dB is achieved for many frequencies.

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

LSPM 1.0 High-Speed Powermeters 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

Frequency Range	9 kHz ... 6 GHz (usable up to 12 GHz)
Analog Rise Time	
Low Band, low bandwidth	1.9 ms
Low Band, high bandwidth	770 ns
High Band	330 ns
Minimum Pulse Width	500 ns
Resolution	<0.01 dB
VSWR	<1.2:1
Sampling Rate	2 MSample/s
Measurement Range	
Low Band	-60 dBm ... 20 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



LUMILOOP GmbH

Gostritzer Str. 63
01217 Dresden
Germany
Phone: +49 (0)351 85097870
E-mail: info@lumiloop.de

www.lumiloop.de

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