LUMILOOP

LSPM 1.0

9kHz – 6(12)GHz
Triple High-Speed Power Meter

The LSPM 1.0 Triple High-Speed Power Meter is a three channel, high speed, high accuracy and high dynamic range RF Power Meter. 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.

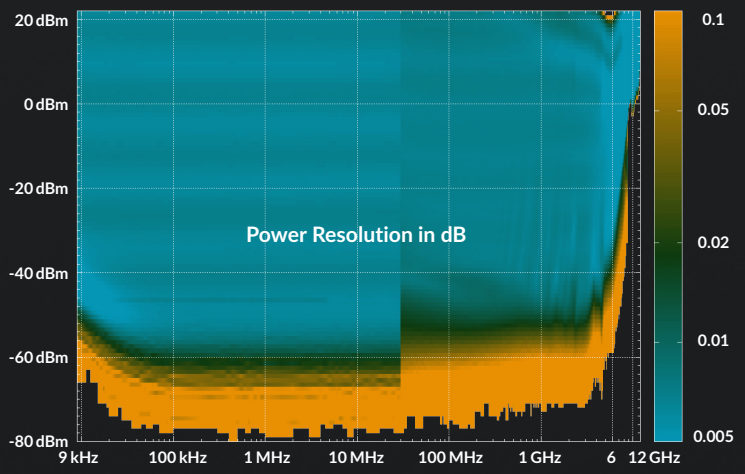
The LSPM 1.0 High-Speed Power Meter's high sampling rate allows for high resolution time-domain signal analysis. The Power Meter can be synchronized with signal generators in order to realize high resolution pulse analysis.

LSPM 1.0 High-Speed Power Meters 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	
Low Band	9 kHz ... 400 MHz
High Band	30 MHz ... 6 GHz (usable up to 12 GHz)
Analog Rise Time	
Low Band (Video BW 500 Hz)	1.9 ms
Low Band (Video BW 1 MHz)	770 ns
High Band (Video BW 3 MHz)	330 ns
Minimum Pulse Width	500 ns
VSWR	<1.2:1
Sampling Rate	2 MSamples/s
Measurement Range & Dynamic Range	
Low Band	<-60 dBm ... >20 dBm (>80 dB)
High Band up to 4 GHz	<-70 dBm ... >20 dBm (>90 dB)
High Band 4 ... 6 GHz	<-50 dBm ... >20 dBm (>70 dB)
High Band 6 ... 12 GHz	<0 dBm ... >20 dBm (>20 dB)
Amplitude Accuracy*	0.1 dB
Linearity Error	0.15 dB
Temperature Stability	0.1 dB
Power Resolution	<0.1 dB (see plot below)
Channel Isolation	>50 dB
Damage Level	>30 dBm
PC Interface	USB 2.0
Application Software	LSPM 1.0 TCP Server, LSPM 1.0 GUI, Callmport
Trigger Voltage	5 V
Trigger Connector	BNC
Input Voltage	5 V ±5 %
Input Current	<3 A
Ambient Temperature	10 ... 40 °C
Dimensions (W × D × H)	165 × 142 × 61 mm^3
Certifications	CE

*) At 0 dBm, CW, accredited Calibration at Ametek CTS Europe GmbH.



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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