

# Power Measurement Solutions

## Universal USB Power Sensors



**MA24208A:** 10 MHz to 8 GHz  
**MA24218A:** 10 MHz to 18 GHz  
 -60 dBm to +20 dBm  
 (1 nW to 100 mW)  
 > 11,000 readings/s buffered  
 Max power: +30 dBm avg

## Microwave CW USB Power Sensors



**MA24330A:** 10 MHz to 33 GHz  
**MA24340A:** 10 MHz to 40 GHz  
**MA24350A:** 10 MHz to 50 GHz  
 -70 dBm to +20 dBm  
 (1 nW to 100 mW)  
 > 5,600 readings/s buffered  
 Max power: +26 dBm avg

## Peak Power USB Sensors



**MA24406A:** 50 MHz to 6 GHz  
**MA24408A:** 50 MHz to 8 GHz  
**MA24418A:** 50 MHz to 18 GHz  
**MA24419A:** 50 MHz to 18 GHz  
**MA24440A:** 50 MHz to 40 GHz  
**MA24441A:** 50 MHz to 40 GHz  
 Up to 195 MHz VBW  
 Crest factor, CCDF, Pulse

## True RMS USB Power Sensors



**MA24103A**  
 25 MHz to 1 GHz  
 Forward and Reverse  
 Measurements  
 +3 dBm to 51.76 dBm  
 (2 mW to 150 W)  
 Inline Peak Power Sensor

**MA24105A**  
 350 MHz to 4 GHz  
 Forward and Reverse  
 Measurements  
 +3 dBm to 51.76 dBm  
 (2 mW to 150 W)  
 Inline Peak Power Sensor

**MA24106A**  
 50 MHz to 6 GHz  
 -40 dBm to +23 dBm  
 (0.1 μW to 200 mW)  
 USB Power Sensor

**MA24108A**  
 10 MHz to 8 GHz  
 -40 dBm to +20 dBm  
 (0.1 μW to 100 mW)  
 Microwave USB Power Sensor

**MA24118A**  
 10 MHz to 18 GHz  
 -40 dBm to +20 dBm  
 (0.1 μW to 100 mW)  
 Microwave USB Power Sensor

**MA24126A**  
 10 MHz to 26 GHz  
 -40 dBm to +20 dBm  
 (0.1 μW to 100 mW)  
 Microwave USB Power Sensor

## Power Meters



**ML2437A & ML2438A**  
 100 kHz to 65 GHz (sensor dependent)  
 Power Meters

### Recommended Sensors

**MA247xD**  
**MA244xD**  
**MA248xD**  
**MA2400xA**

## Power Sensors



MA2472D

MA2481D

MA2444D

MA2482D  
 used to be MA2480D



	MA244xxA Series	MA243xxA Series	MA242xxA Series	MA241xxA Series	MA24103A	MA24105A	MA24106A	MA2400xA Series	MA248xD Series	MA247xD Series	MA244xD Series	MA249xA Series	MA2411B		
<b>Description</b>	USB	USB	USB	USB	In-line USB	In-line USB	USB	Thermal	Universal	Standard Diode	High Accuracy Diode	Wideband	Pulse		
<b>Measurements</b>	Average (RMS), Peak, Pulse	Average Power (CW only)	Average Power (RMS)	Average Power (RMS)	Average (RMS), Peak Power	Average (RMS), Peak Power	Average Power (RMS)	Average (RMS)	Average Power (RMS)	Average Power	Average Power	Average (RMS), Peak	Average (RMS), Peak, Pulse		
<b>In-line Forward &amp; Reverse Measurements</b>					■	■									
<b>Frequency (GHz)<sup>(1)</sup></b>	0.05 to 40	0.01 to 50	0.01 to 18	0.01 to 26	0.025 to 1	0.35 to 4	0.05 to 6	0.01 to 50	0.01 to 18	0.01 to 50	0.01 to 50	0.05 to 18	0.3 to 40		
<b>Dynamic Range (dBm)<sup>(1)</sup></b>	-50 to +20	-70 to +20	-60 to +20	-40 to +20	+3 to +51.76	+3 to +51.76	-40 to +23	-30 to +20	-60 to +20	-70 to +20	-67 to +20	-60 to +20	-20 to +20		
<b>VBW</b>	Up to 195 MHz	50 kHz			Average: 100 Hz Peak Selectable: 4 MHz (full) 200 kHz 4 kHz	Average: 100 Hz Peak Selectable: 4 MHz (full) 200 kHz 4 kHz	100 Hz			100 kHz	100 kHz	20 MHz	50 MHz		
<b>Average</b>	■	■	■	■	■	■	■	■	■	■	■	■	■		
<b>Peak Power &amp; CrestFactor</b>	■				■	■						■	■		
<b>CCDF &amp; PDF</b>	■				CCDF only	CCDF only						■	■		
<b>PAE Measurement</b>	■											■	■		
<b>NIST Traceable Calibration</b>	Up to 18 GHz	■	■	■	■	■	■	■	■	■	■	■	■		
<b>Applications</b>	Pulse Profiling, Any Modulation	CW	CW, Pulse, Any Modulation	CW, Pulse, Any Modulation	CW, Pulse	CW, Pulse, Any Modulation	CW, Pulse, Any Modulation	CW, Pulse, Any Modulation	CW, Pulse, Any Modulation	General Purpose, CW	General Purpose, CW	CW, Pulse, Any Modulation	Pulse Profiling, Any Modulation		
<b>Compatible Power Meters</b>	PC with Windows 7 or Higher	Windows PC Field Master Site Master, Cell Master, Spectrum Master, VNA Master, BTS Master	Windows PC Field Master Site Master, Cell Master, Spectrum Master, VNA Master, BTS Master	Windows PC Field Master Site Master, Cell Master, Spectrum Master, VNA Master, BTS Master	Windows PC Field Master Site Master, Cell Master, Spectrum Master, VNA Master, LMR Master	Windows PC Field Master Site Master, Cell Master, Spectrum Master, VNA Master, BTS Master, LMR Master	Windows PC Field Master Site Master, Cell Master, Spectrum Master, VNA Master, BTS Master, LMR Master			ML243xA	ML243xA	ML243xA	ML243xA	ML248xA/B, ML249xA (Obsolete)	ML248xA/B, ML249xA (Obsolete)

(1) Frequency and Dynamic Range depend upon the model number of the sensor.

