U2040 & U/L2050/60 X-Series Wide Dynamic Range Power Sensors



Keysight U2040 &U/ L2050/60 X-Series wide dynamic range power sensors offer accurate and repeatable power measurement for any modulated signal. This series comprised of USB and LAN based models – and covers frequency from 10 MHz up to 67 GHz and power dynamic range of -70 to +26 dBm. The U2049XA ¹ and L2065/66/67XT ¹ are the world's first LAN-based sensor ¹ with thermal vacuum (TVAC) option, is suitable for distances up to 100 meters and comes with best-in-class long term drift performance.

Key features and benefits

- Frequency range of 10 MHz up to 67 GHz
- USB/LAN connectivity with world's widest dynamic range (-70 to +26 dBm) for small signal measurements in wireless
 chipset and payload testing
- 5 MHz video bandwidth and single shot real-time capture at 20M samples/sec
- Variable sampling rate up to 1M sample/sec and Long Memory 1M samples data storage
- LAN power sensor with thermal vacuum compliance
- Super-fast measurement speed (50,000 readings/sec) enables higher manufacturing throughput
- · Real-time measurement with zero dead time to ensure every single continuous pulse is measured
- Average mode time selectivity feature allows the sensor to measure average and time selectivity average power measurements across the full 96 dB range
- A BenchVue Power Meters/Sensors App (BV0007B) license is now included with your instrument. The app makes it simple to connect, control instruments, and automate test sequences

BenchVue Power Meters/Sensors App

- Intuitive software is bundled with each X-Series wide dynamic range power sensors
- Easy measurement start-up upon connection of hardware and launching of software
- Faster setup with built-in radar and wireless presets





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USB model	LAN model	Description	Frequency range	Power range	Supported measurements	Connector type
U2041/51XA	L2051XA	Wide dynamic range average power sensor	10 MHz – 6 GHz	-70 to +26 dBm	Average, time-selectivity in average mode	N-type
U2042/61XA	L2061XA	Wide dynamic range peak and average power sensor	-		Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	(male)
U2043/52XA	L2052XA	Wide dynamic range average power sensor	10 MHz – 18 GHz	-70 to +26 dBm	Average, time-selectivity in average mode	N-type
U2044/62XA	L2062XA	Wide dynamic range peak and average power sensor	-		Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	(male)
U2053XA	L2053XA	Wide dynamic range average power sensor	10 MHz – 33 GHz	-70 to +26 dBm	Average, time-selectivity in average mode	3.5 mm
U2063XA	L2063XA	Wide dynamic range peak and average power sensor	-		Peak, average, peak-to-average, time-gated and free run mode, pulse parameters	(male)
	U2049XA	Wide dynamic range peak and average power sensor	-	-70 to +20 dBm	analysis, pulse profiling	
U2054XA	L2054XA	Wide dynamic range average power sensor	10 MHz – 40 GHz	-70 to +20 dBm	Average, time-selectivity in average mode	2.92 mm
U2064XA	L2064XA	Wide dynamic range peak and average power sensor	-		Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	(male)
U2055XA	L2055XA	Wide dynamic range average power sensor	10 MHz – 50 GHz	-70 to +20 dBm	Average, time-selectivity in average mode	2.4 mm
U2065XA	L2065XA	Wide dynamic range peak and average power sensor	10 MHz – 53 GHz (Option 053)	(10 MHz to 50 GHz) -70 to 0 dBm (> 50 GHz to 53 GHz) ¹	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	(male)
U2056XA	L2056XA	Wide dynamic range average power sensor	10 MHz – 54 GHz	-70 to +20 dBm	Average, time-selectivity in average mode	1.85 mm
U2066XA	L2066XA	Wide dynamic range peak and average power sensor	-	(10 MHz to 50 GHz) -70 to +15 dBm (> 50 GHz to 54 GHz)	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	(male)
U2057XA	L2057XA	Wide dynamic range average power sensor	10 MHz – 67 GHz	-70 to +20 dBm	Average, time-selectivity in average mode	1.85 mm
U2067XA	L2067XA	Wide dynamic range peak and average power sensor		(10 MHz to 50 GHz) -70 to +15 dBm (> 50 GHz to 54 GHz) -70 to +10 dBm (> 54 GHz to 67 GHz)	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	(male)
Thermal vacu	ium complianc	e power sensors				
	U2049XA (Option TVA)	Wide dynamic range peak and average power sensor with thermal vacuum option	10 MHz – 33 GHz	-70 to +20 dBm	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	3.5 mm (male)
	L2065XT	Wide dynamic range peak and average power sensor with thermal vacuum compliance	10 MHz – 53 GHz	-70 to +20 dBm (10 MHz to 50 GHz) -70 to 0 dBm (> 50 GHz to 53 GHz)	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	2.4 mm (male)
	L2066XT	Wide dynamic range peak and average power sensor with thermal vacuum compliance	10 MHz – 54 GHz	-70 to +20 dBm (10 MHz to 50 GHz) -70 to +15 dBm (> 50 GHz to 54 GHz)	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	1.85 mm (male)
	L2067XT	Wide dynamic range peak and average power sensor with thermal vacuum compliance	10 MHz – 67GHz	-70 to +20 dBm (10 MHz to 50 GHz) -70 to +15 dBm (> 50 GHz to 54 GHz) -70 to +10 dBm (> 54 GHz to 67 GHz)	Peak, average, peak-to-average, time-gated and free run mode, pulse parameters analysis, pulse profiling	1.85 mm (male)

1. Available for Option 053 only.



X-Series USB/LAN power sensors options

Description
BNC male to SMB female trigger cable, 50 Ω , 1.5 m
English language Operating and Service Guide
English language Programming Guide
English language Service Guide
Japanese language Operating and Service Guide
Documentation Optical Disk (consists of documentation CD-ROM and
Keysight Instruments Control DVD)
Documentation Optical Disk (consists of documentation CD-ROM and
Keysight Instruments Control DVD)
BenchVue Power Meter/Sensor Control and Analysis app license
lata
Commercial calibration with test data
ANSI Z540 compliant calibrations and test data
ISO 17025 compliant calibrations and test data

Available for U2040 X-Series only.
 Available for U/L2050/60 X-Series and L2065/66/67XT only.

U2050/60 X-Series USB power sensors options

Options	Description	
Accessories		
U2000A-201	Transit case	
U2000A-202	Soft carrying case	
U2000A-203	Holster	
U2000A-204	Soft carrying pouch	
Cables (selectable during sensor purchase)		
U2000A-301/302/303	USB cable 1.5 m/ 3 m/ 5 m	
Cables (ordered standalone)		
U2031A/B/C	USB cable 1.5 m/ 3 m/ 5 m	

U2049 & L2050/60 X-Series LAN power sensors options¹

Options	Description		
Accessories			
U2035A	U2049XA sensor casing		
U2036A	TVAC sensor bracket (for option TVA only)		
Standard LAN cables	s (selectable during sensor purchase and orderable standalone)		
U2034A/B/C/D/E/F	LAN cable 1.5 m/ 3 m/ 5 m/ 15.2 m/ 30.5 m/ 61 m		
TVAC LAN cables (selectable during sensor purchase and orderable standalone)			
U2037A/B/C/D/E/F	LAN cable 1.5 m/ 3 m/ 5 m/ 15.2 m/ 30.5 m/ 61 m		
Trigger cable			
U2033A	TVAC trigger cable BNC Male to SMB female, 50 Ω , 1.5 m (For		
	U2049XA Option TVA and L2065/66/67XT only)		

1. PoE injector is not included. A commercially available 802.3at or 802.3af compliant PoE injector can be used with the LAN power sensors.

Standard Shipped Items

U2050/60 X-Series USB power	USB cable 5 ft (1.5 m), default cable length
sensors	BNC male to SMB female trigger cable, 50 Ω , 1.5 m (Quantity: 2)
	Certificate of calibration
U2049XA & L2050/60 X-Series	LAN cable 5 ft (1.5 m), default cable length
LAN power sensors	BNC male to SMB female trigger cable, 50 Ω , 1.5 m (Quantity: 2)
	Certificate of calibration
U2049XA (Option TVA) and	TVAC LAN cable 5 ft (1.5 m), default cable length
L2065/66/67XT TVAC LAN power	TVAC BNC male to SMB female trigger cable, 50 Ω , 1.5 m
sensors	(Quantity: 2)
	TVAC sensor bracket
	Thermal interface material
	Certificate of calibration



