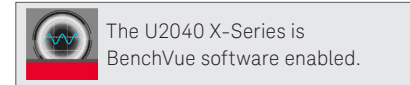


Keysight U2040 X-Series Wide Dynamic Range Power Sensors



Keysight U2040 X-Series wide dynamic range power sensors offer accurate and repeatable power measurement for any modulated signal. This series comprises five models - four USB-based models and one LAN-based model - and covers a range of -70 to +26 dBm. The U2049XA, the world's first LAN-based sensor¹ 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

- World's widest dynamic range (-70 to +26 dBm) for small signal measurements in wireless chipset and payload testing
- 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
- Internal zero and automatic calibration saves time and reduces measurement uncertainty

BenchVue software

- Intuitive software is bundled for free with each U2040 X-Series power sensor
- Easy measurement start-up upon connection of hardware and launching of software
- Faster setup with built-in radar and wireless presets

Standard shipped items

- Sensor cable
 - USB cable: 5 ft (1.5 m), default cable length²
 - LAN cable: 5 ft (1.5 m), default cable length³
- BNC male to SMB female trigger cable, 50 Ω, 1.5 m (Quantity: 2)
- Thermal interface material⁴
- Certificate of calibration
- CD documentation
- Keysight Instrument Control DVD (contains IO Libraries Suite, Command Expert and BenchVue software)

1. Connected to Power over Ethernet (PoE) ports, which can be used to supply the DC power required to power up the sensor and to transfer data.
2. Only applicable to U2041XA/42XA/43XA/44XA
3. Only applicable to U2049XA
4. Only applicable to U2049XA (Option TVA)

For more information the U2040 X-Series, visit:
www.keysight.com/find/widedynamicsensor



U2040 X-Series wide dynamic range sensor ordering information

| Model | Description | Frequency range/ Dynamic range | Supported measurements |
|-------------------------|--|--------------------------------------|--|
| U2041XA | USB wide dynamic range average power sensor | 10 MHz to 6 GHz / -70 to +26 dBm | Average, time- selectivity in average mode |
| U2042XA | USB peak and average power sensor | 10 MHz to 6 GHz / -70 to +26 dBm | Peak, average, peak-to-average power, time-gated and free run mode, pulse parameters analysis, pulse profiling |
| U2043XA | USB wide dynamic range average power sensor | 10 MHz to 18 GHz / -70 to +26 dBm | Average, time- selectivity in average mode |
| U2044XA | USB peak and average power sensor | 10 MHz to 18 GHz / -70 to +26 dBm | Peak, average, peak-to-average power, time-gated and free run mode, pulse parameters analysis, pulse profiling |
| U2049XA (Option 100) | LAN power sensor | 10 MHz to 33 GHz / -70 to +20 dBm | Peak, average, peak-to-average power, time-gated and free run mode, pulse parameters analysis, pulse profiling |
| U2049XA (Option TVA) | LAN power sensor (with thermal vacuum option) | 10 MHz to 33 GHz / -70 to +20 dBm | Peak, average, peak-to-average power, time-gated and free run mode, pulse parameters analysis, pulse profiling |

www.keysight.com/find/widedynamicsensor

www.keysight.com/find/services

Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

U2041XA/42XA/43XA/44XA USB power sensors

| 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 ⁴ / 3 m / 5 m |
| U2032A | BNC male to SMB female trigger cable, 50 Ω, 1.5 m |

U2049XA LAN power sensor

| Options | Description |
|---|---|
| Accessories | |
| U2035A | U2049XA sensor casing |
| U2036A | TVAC sensor bracket (for option TVA only) |
| Standard LAN cables (selectable during sensor purchase and orderable standalone) | |
| U2034A/B/C/D/E/F | LAN cable 1.5 m ⁴ / 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 ⁴ / 3 m / 5 m / 15.2 m / 30.5 m / 61 m |
| Trigger cable | |
| U2032A | BNC male to SMB female trigger cable, 50 Ω, 1.5 m |

For all U2040 X-Series models

| Options | Description |
|----------------------------------|--------------------------------------|
| Calibration and test data | |
| UK6 | Commercial calibration |
| Optional software | |
| BV0007A | BenchVue Power Meter Pro App license |

4. Default selection for cable length