

TPS2000B Series Oscilloscopes

Powerful productivity from bench to field



20013-75

The TPS2000B Series allows you to tackle the escalating challenges that you face in industrial power design, troubleshooting, installation, and maintenance. Make floating, or differential, measurements accurately, quickly and, affordably. Confidently confront high voltages and currents. Quickly debug and characterize signals.

Easily analyze and document your measurement results. Correlate your measurements between bench, lab, and field. Test your designs in a variety of challenging environments that demand versatility. All this is possible with the TPS2000B Series—the world's first 4-isolated-channel, full-featured, battery-powered oscilloscope.

Applications

- Industrial power design, troubleshooting, installation, and maintenance
- Advanced electronics design, troubleshooting, installation, and maintenance
- Automotive design and test
- Education

- 11 automated measurements and FFT analysis
- Digital real-time (DRT) sampling technology with up to 2 GS/s real-time sample rate to capture elusive glitches—the first time
- 4 IsolatedChannel™ inputs and external trigger input to make multi-channel floating measurements quick, accurate and affordable
- OpenChoice® software and integrated CompactFlash® mass storage to speed storage, documentation and analysis of your measurements
- Autoset menu, autorange, automatic measurements, 10X to 1000X vertical position control and more to boost your productivity
- 8+ hours of continuous battery operation with hot-swappable batteries for virtually unlimited freedom from an AC power source
- Traditional user interface with analog-style knobs makes easy work of your most demanding tasks
- Power measurement and analysis software offers the broadest range of power measurements at its price point
- RS-232 port on rear panel

SPECIFICATIONS	
Oscilloscope type	DSO with isolated channels
Record length	2.5 K maximum
Connectivity and storage	RS-232, Centronics, CompactFlash
Trigger types	Edge, Pulse, Video
Waveform math	Simple waveform math -FFT -Easy connection to TDSPCS1 OpenChoice software (included). Analysis MS Windows software (optional) — TPS2PWR1 software offers the broadest range of power measurements at its price point (order on page 361)
Display	Color ¼ VGA LCD
Dimensions (W x H x D)	13¼" x 6½" x 5" (336 x 161 x 130 mm)
Power	Power Source Voltage: 100 to 240 V ±10% Power Source Frequency: 47 to 66 Hz (90 to 264 V), 360 to 440 Hz (100 to 132 V)
Battery operation	8 hours of continuous battery operation with 2 batteries installed, hot-swappable for virtually unlimited freedom from an AC power source

What's included: One P2220 (200 MHz, 1X/10X) switchable passive probe per channel, OpenChoice PC connectivity software, NI LabVIEW SignalExpress™ limited edition software, RS-232 to USB adapter cable, calibration document supplied by the manufacturer, lithium-ion battery, AC adapter with power cord, front protective cover, instruction manuals.

Catalog No.	Model No.	Bandwidth	Channels	Sample rate*	Rise time
TS-20023-73	TPS2012B	100 MHz	2	1.0 GS/s	3.8 ns to 2.1 ns
TS-2002374	TPS2014B	100 MHz	4	1.0 GS/s	3.8 ns to 2.1 ns
TS-2002375	TPS2024B	200 MHz	4	2.0 GS/s	3.8 ns to 2.1 ns
Accessories					
MC-17100-34	—	NIST-traceable recalibration with data. Available at time of purchase.			

*Digital real-time (DRT) sampling technology