

NI PXI DMMs

From entry level to the highest fidelity, NI PXI DMMs deliver the accuracy, speed, and software workflows engineers need to get started quickly—and seamlessly scale to fully automated test.

- Up to 7½ digits of resolution
- Voltage measurements up to 1,000 VDC
- Current measurements up to 3 A
- Resistance measurements up to 5 GΩ
- Transient analysis without additional equipment



Key Features

Measurement Confidence

From affordable entry-level options to high-fidelity 7½-digit resolution and up to 12 ppm accuracy, NI PXI DMMs deliver confidence in every measurement over time, with onboard self-calibration and up to two-year calibration intervals.

Accelerated Analysis

Unlike most DMMs, select NI PXI DMMs include waveform mode, letting you capture and analyze signals at up to 1.8 MS/s without additional equipment.

Adaptable Speed and Accuracy

Adapt every measurement to your needs. Programmatically adjust measurement parameters, such as aperture time, to balance speed and accuracy based on your application.

Built on PXI

The Industry's Most Flexible High-Performance Test Platform

NI PXI DMMs are part of the modular PXI platform, with more than 500 modules from DC to mmWave. Build smarter, faster automated test systems with NI PXI:

- Ideal for mixed-signal applications and complex device testing
- Achieve precise, synchronized measurements across instruments
- Scale to high-channel-count applications
- Maximize rack space with high-density systems

PXI delivers the accuracy, reliability, and flexibility you need to solve today's toughest test demands and adapt for tomorrow's innovations.

NI PXI Digital Multimeter Modules



Entry Level

- 6½ digits of resolution
- Up to ± 300 V
- Up to ± 3 A



High Accuracy, General Purpose

- 6½ digits of resolution
- Up to ± 300 V
- Up to ± 1 A
- Analyze transients at up to 1.8 MS/s without additional equipment
- Inductance and capacitance on select DMMs



High Resolution, Best Accuracy

- 7½ digits of resolution
- Up to $\pm 1,000$ V
- Up to ± 3 A
- Analyze transients at up to 1.8 MS/s without additional equipment

From No-Code Measurements to Fully Automated Test

Our connected software platform assists you at every step, from instrument configuration and measurement development to automated test and system deployment. NI software helps you test faster, adapt to change, and scale with confidence, so you can focus on engineering. Now, with NI Nigel™ AI, develop better test systems faster with expert guidance with an AI optimized for test.

Take Interactive Measurements Quickly Without Programming Using NI InstrumentStudio™ Software

Included with every NI PXI system, get familiar instrument controls in a unified software environment for all your instruments.

Develop Faster with NI Drivers and Open Language Support

NI drivers provide examples and support for NI LabVIEW, Python, C/C++, C#, and more.

Scale to Automated Test with NI LabVIEW+ Suite

The LabVIEW+ Suite combines purpose-built tools for electronics validation and production with Nigel AI integrated to accelerate development across tools.



Learn more about NI PXI DMMs

Scan here to see how NI PXI DMMs simplify test system design and accelerate automated measurements.



Find the right NI PXI DMM

Scan here to view the full product catalog and compare DMM options for your application.