

Support Information Only

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Agilent Technologies

SMX2040 Series

6-1/2 Digit PXI™ & Compact PCI™ Multimeters

■ SMX2040

6-1/2 Digit Digital
Multimeter

■ SMX2042

6-1/2 Digit Enhanced
Digital Multimeter

■ SMX2044

6-1/2 LCR Sourcing
Digital Multimeter

Hardware features

- DC voltage and current
- AC voltage and current
 - True RMS
 - Peak-to-Peak
 - Crest factor
 - Median
- Resistance
 - 2-wire • Guard V&I Limited
 - 4-wire • Offset Ohms
 - 6-wire guarded measurement
 - Extended measurement, to 1GΩ
- RTDs & Thermocouples temperature
- Internal temperature
- Diode V/I characterization
- Capacitance
 - DC
 - AC in-circuit
- Inductance measurement
- Leakage measurement
- Time measurement
 - Variable threshold DAC
 - Frequency and period
 - Duty cycle
 - Pulse width
 - Totalizer, event counter
- Source and measure function
 - DC voltage
 - AC voltage
 - DC current
 - Synthesized resistance



Linux



Quality you can measure

Uncompromising Performance

As its PCI predecessors, the SMX2040 provides a combination of resolution, accuracy, and speed that surpasses rivals. This family of 6-1/2 digit DMMs plugs into any PXI™ or CompactPCI™ chassis. It has all the functionality and performance expected of a high-end bench top DMM, and a lot more. The SMX2040 series is designed as a universal, multifunction DMM. The plug-in design provides the convenience of automated measurement and cost efficiency in the smallest possible footprint, with no compromise in performance.

The front panel for the SMX2040 series DMMs appears on your PC monitor. All of the familiar DMM controls are available on this virtual front panel. You have the option to control the SMX2040 without any programming or configuration using your mouse to manipulate the virtual front panel controls straight out of the box.

Signal leads go straight from the SMX2040 in your PXI™ or compactPCI™ chassis to the device under test or a SMX4000 relay scanner. It could not be more straightforward.

Software Features

- Extensive Windows support - Win 95/98, Win NT, Win 2000, Win XP, and Linux
- Language support - Visual C++, Borland C++
- Package support - Labview, LabWindows/CVI™, Testpoint™, ATEasy™, Matlab, VBA, and more.

For specs for the SMX2040 and SMX2044 look up the description for SM2040 and SM2044