

What are the Differences between the Agilent M9181A/M9182A/M9183A DMMs and the Signametrics SMX2055/SMX2060/SMX2064 DMMs?

This FAQ answers the question: *What are the differences between the Agilent and Signametrics DMMs listed in Table 1?* Specifically, this FAQ compares the Agilent and Signametrics products in each row of the table to each other—for example, the Agilent M9182A to the Signametrics SMX2060. Each Agilent DMM is based on the design of the corresponding Signametrics product, so most specifications and capabilities are the same between rows. This FAQ describes only those specifications and capabilities that are different between the Agilent and Signametrics DMMs.

Table 1: The three sets of Agilent and Signametrics DMMs

Product	Agilent DMM	Signametrics DMM used as the basis for the Agilent DMM at left
6½ digit PXI digital multimeter	M9181A	SMX2055
6½ digit PXI digital multimeter	M9182A	SMX2060
6½ digit, enhanced performance PXI digital multimeter	M9183A	SMX2064

Differences that apply to the Agilent DMMs relative to their Signametrics counterparts are summarized in [Table 3](#) and [Table 4](#). Subsequently, the following sections provide additional details:

- [1. Differences in software drivers and front panel support](#)
- [2. Differences in specifications and capabilities](#)
- [3. Differences in the calibration and verification procedures](#)
- [4. Differences in connectors](#)

For additional information on the Agilent DMMs, please see the following documents:

- 6 ½ Digit, M9181A Data Sheet
- 6½ Digit, High Performance M9182A, M9183A Data Sheet
- Agilent M918x Series Startup Guide
- Agilent M918x Series PXI DMM Soft Front Panel Help



- AgM918x IVI Driver Help
- Agilent PXI 6½ Digit Multimeters M9181A, M9182A, M9183A Calibration and Verification Procedure

For the latest version of these documents, go to: www.agilent.com/find/M9181A
www.agilent.com/find/M9182A
www.agilent.com/find/M9183A

1. Differences in software drivers and front panels

This section describes the differences in drivers and front panel support between the Agilent and Signametrics DMMs. This information is organized into the following subsections:

[1-A: Supported drivers](#)

[1-B: Driver and application compatibility](#)

[1-C: Front panel support](#)

1-A: Supported drivers

- Agilent provides the following three drivers for the M9181A, M9182A, and M9183A PXI DMMs:
 - IVI-COM, IVI-C, LabVIEW

Table 2: Agilent and Signametrics DMMs supported Windows® based drivers.

	Agilent Drivers (IVI-C, IVI-COM, MATLAB, and LabView)	Signametrics Compatible Drivers SMX2060.dll version ≥ 2.00	Signametrics Drivers SMX2060.dll version < 2.00
Supported Windows Environments	Windows Vista Windows XP Windows 7	Windows XP Windows 7	Windows 2000 Windows XP
Agilent DMMs	These drivers can be used with the Agilent M9181A/M9182A/M9183A DMMs	These drivers can be used with the Agilent M9181A/M9182A/M9183A DMMs, allowing existing Signametrics applications to be used with the Agilent DMMs.	This driver cannot be used with Agilent DMMs
Signametrics DMMs	These drivers cannot be used with the Signametrics DMMs.	This driver can be used with the Signametrics SMX2055/SMX2060/SMX2064 DMMs.	This driver can be used with the Signametrics SMX2055/SMX2060/SMX2064 DMMs.

- IVI stands for *Interchangeable Virtual Instrument* and is a software architecture for programming test instruments. The IVI architecture is under the control of the IVI Foundation—see www.ivifoundation.org

for details. For information on the Agilent IVI-COM and IVI-C drivers, see the AgM918x driver help file on your PC at:

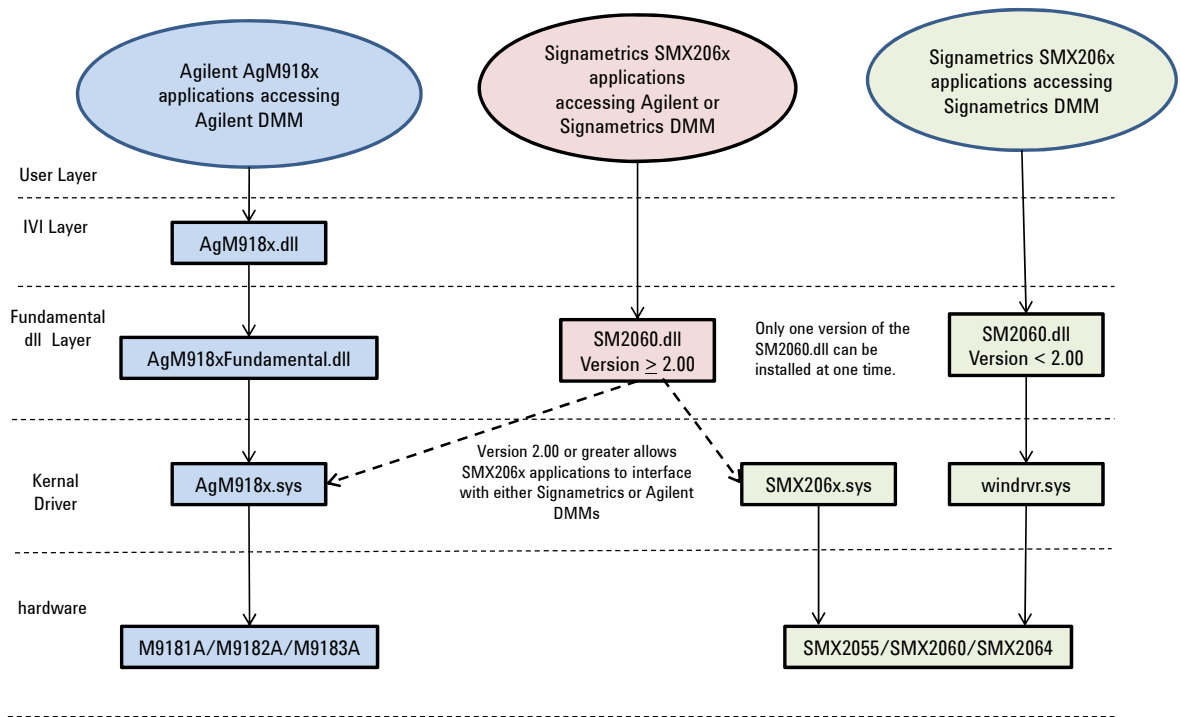
Start > All Programs > Agilent IVI Drivers > AgM918x DMM > Documentation.

- Signametrics offers a single driver (SM2060.dll) for the SMX2055, SMX2060 and SMX2064. The driver is based on a proprietary architecture and API. See the SMX2055 and the SMX2060/SMX2064 Operator's Manuals for the driver API functions and parameters. See www.agilent.com/find/signametricsproducts for the link to each Signametrics product and associated manuals and downloads.

1-B: Driver and application compatibility

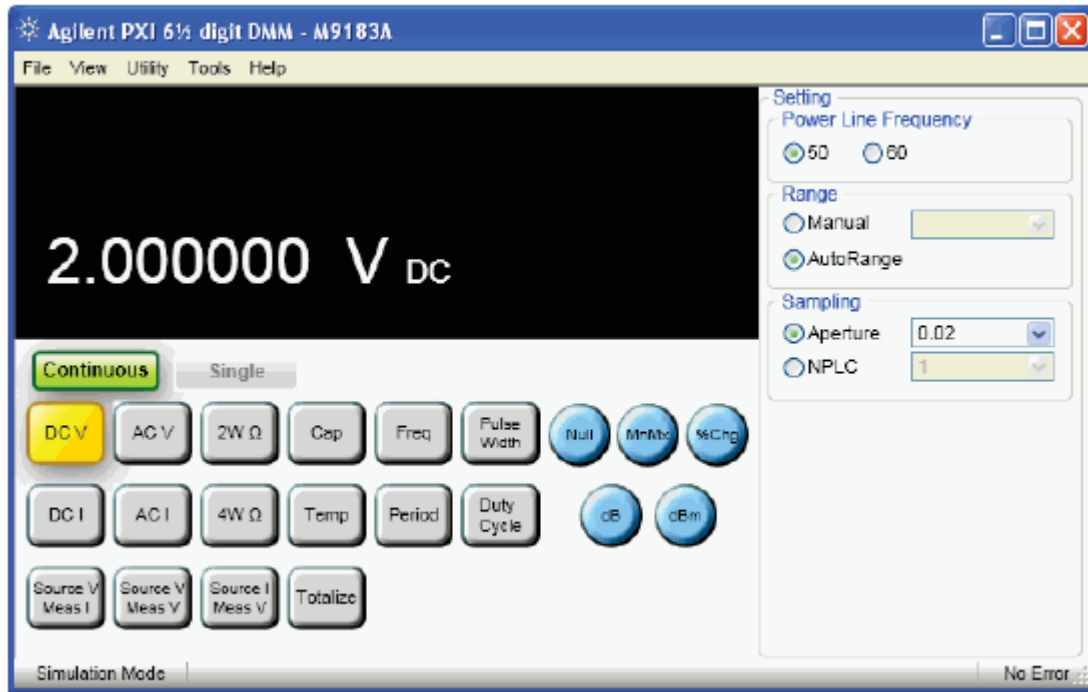
- The Agilent drivers (IVI-COM, IVI-C, and LabVIEW) will not work with Signametrics DMMs.
- The Signametrics compatible driver SM2060.dll version 2.00 and greater will work with both Agilent and Signametrics DMMs.
- The Signametrics driver SM2060.dll versions less than 2.00 will not work with Agilent DMMs.

Figure 1: Agilent and Signametrics drivers.



1-C: Front panel support—Both Agilent and Signametrics products have software-based front panels that run on the host PC.

- The Agilent front panel is called the *soft front panel (SFP)*. Agilent provides one SFP that supports the M9181A, M9182A and M9183A DMMs. The SFP is installed as part of the software installation and can be executed by **Start > All Programs > Agilent > M918x DMM > M918x SFP**. The associated SFP help file is in the same folder as the SFP executable and is named **M918x SFP Help**. The M9183A SFP is shown below:



- The Signametrics front panel is called the *control panel* and is shown below for the SMX2064 DMM:



The Signametrics control panel only supports the Signametrics DMMs.

Table 3: Summary of differences that apply to the Agilent M9182A and M9183A DMMs relative to their Signametrics counterparts, SMX2060 and SMX2064

Specifications and Capabilities	Agilent M9182A/M9183A DMMs		Signametrics SMX2060/SMX2064 DMMs
	Agilent driver (AgM918x.dll)	Signametrics compatible driver - Signametrics SM2060.dll version ≥ 2.00	Signametrics SM2060.dll all versions
Number of digits	6½ —Agilent’s characterization concluded that the effective number of bits measured (22) equates to 6½ digits. When accessed programmatically, both the Agilent and Signametrics DMMs return 7½ digits. The Agilent soft front panel and datasheet shows 6½ digits.	7½ digits are delivered programmatically and via the Signametrics front panel. The programmatic output is no different than what the Agilent driver provides.	7½ digits are delivered programmatically and via the Signametrics front panel. The Signametrics datasheet shows 7½ digits.
Accuracy of measurements	<ul style="list-style-type: none"> Agilent’s DMMs employ a four point factory calibration algorithm to improve the linearity of the A-to-D converter. Design changes have been made to improve the temperature coefficient plus the drift of measurements over time. Design changes have also been made to improve the accuracy of both high current measurements and resistance measurements. 	The Agilent DMMs have improved accuracy and linearity even when using the Signametrics compatible driver for taking measurements, due to hardware enhancements to the M9182A and M9183A Agilent DMMs. The Agilent DMMs must be calibrated using the Agilent driver.	Some Signametrics accuracy specifications do not reflect guard banding.
DC Voltage, current, and resistance Performance	Performance improvements include: DC voltage measurements with stabilized reference, current measurements with improved shunts, Improved stability in resistance measurements due to current source upgrade	All performance improvements mentioned at left apply, when using the Signametrics compatible driver, since improvements are due to hardware enhancements.	
AC Performance	Provides an AC voltage settling time to the specified accuracy that is three times faster than the Signametrics DMMs.	Provides an AC voltage settling time to the specified accuracy that is three times faster than the Signametrics DMMs, even when using the Signametrics compatible driver, since improvements are due to hardware enhancements.	
Method of specifying DMM accuracy	The Agilent M9182A/M9183A datasheet specifies DMM accuracy as a percent of reading plus a percent of the full scale range (not including over range)	The Agilent datasheet applies - specified as a percent of reading plus a percent of the full scale range (not including over range).	Specified as a percent of reading plus an offset.
Autoranging	Automatically changes the range until a valid measurement is obtained (or the topmost range is reached without obtaining a valid measurement).	When using the Signametrics compatible driver - only changes the range once in attempting to obtain a valid measurement, then returns the original measurement if the measurement isn’t valid. A program must be written to iterate through the ranges to ensure a valid measurement is obtained.	Only changes the range once in attempting to obtain a valid measurement, then returns the original measurement if the measurement isn’t valid. A program must be written to iterate through the ranges to ensure a valid measurement is obtained.
Thermistor-based temperature measurements	Calculates temperature based on the measurement of certain supported thermistor types	Signametrics compatible driver does not support calculation of temperature based on thermistor measurements	Does not support calculation of temperature based on thermistor measurements
Frequency and period measurements	<ul style="list-style-type: none"> The lowest frequency range used by the Signametrics DMMs (1 Hz to 130 Hz) has been divided into two ranges, 1 Hz–20 Hz and 20 Hz–130 Hz, for the Agilent DMMs. Frequency and period measurements can be performed only on voltage waveforms. 	Using the Signametrics compatible driver, frequency and period measurements can be performed on both voltage and current waveforms, but specifications are not guaranteed or warranted for current waveforms.	.Frequency range is 1 Hz to 130 Hz
DC source/measure functions	Enhanced usability. For example, in setting a DC voltage source with ClosedLoop true, the M9183A will measure the output voltage and adjust its digital-to-analog converter to achieve the specified voltage.	Continuing with the example at left of setting a DC voltage source, Signametrics compatible driver used with the M9183A DMM requires the user to write a program to adjust the DC output voltage to the specified value.	Continuing with the example at left of setting a DC voltage source, Signametrics SMX2064 requires the user to write a program to adjust the DC output voltage to the specified value.
Inductance Measurements, AC source	Inductance measurements and the AC source are not supported on the M9183A	Inductance measurements can be made on the M9183A using the Signametrics compatible driver, but there is no calibration available. Specifications are not guaranteed or warranted.	Inductance measurements and AC source are supported on the SMX2064.

Specifications and Capabilities	Agilent M9182A/M9183A DMMs		Signametrics SMX2060/SMX2064 DMMs
	Agilent driver (AgM918x.dll)	Signametrics SM2060.dll version ≥ 2.00	Signametrics SM2060.dll
Triggering	<ul style="list-style-type: none"> All functions, such as A-to-D measurements, frequency measurements and capacitance measurements, can be measured under the control of triggering. All readings obtained during triggering operations can be read. 	<ul style="list-style-type: none"> Only functions related to the A-to-D converter can be measured under control of triggering, such as voltage and current measurements. Implements a trigger mode whereby only one of N readings are returned, where N is configurable from 0 to 250; the other readings are discarded. The total number of samples returned can also be configured. 	<ul style="list-style-type: none"> Only functions related to the A-to-D converter can be measured under control of triggering, such as voltage and current measurements. Implements a trigger mode whereby only one of N readings are returned, where N is configurable from 0 to 250; the other readings are discarded. The total number of samples returned can also be configured.
Diode characterization	Diode characterization can be done by using the Ohms function. For example to use the 1 mA source, go to the 2 k Ω range. Take the measured resistance across the diode and multiply by the 1 mA source. The resulting voltage (V=IR) will tell you if the diode is working.	The Signametrics compatible driver supports diode characterization with a specific command, for both Agilent DMMs.	The Signametrics driver supports diode characterization on the SMX2060 and SMX2064 with a specific command.
Leakage measurements	Leakage measurements can be taken using the DC voltage source. Apply the voltage source to the DUT and measure the current (200 nA, 2 μ A, or 20 μ A range) on the M9183A. The resulting measurement is leakage current.	The Signametrics compatible driver supports leakage measurements with a specific command, for the M9183A.	The Signametrics compatible driver supports leakage measurements with a specific command, for the SMX2064
Software drivers	Agilent provides the following, standards-based drivers: <ul style="list-style-type: none"> IVI-COM IVI-C LabVIEW In addition, a MATLAB wrapper is provided.	The Signametrics compatible driver is based on a proprietary architecture and API. See the SMX2060/SMX2064 Operator's Manual for the driver API functions and parameters.	The Signametrics driver is based on a proprietary architecture and API. See the SMX2060/SMX2064 Operator's Manual for the driver API functions and parameters.
Simulation mode	The IVI-COM and IVI-C drivers support simulation mode. This allows programs to be developed in the absence of an actual DMM, and includes limit and error checking.	The Signametrics compatible driver does not support a simulation mode.	The Signametrics driver does not support a simulation mode.
Trace capability	The IVI-COM and IVI-C drivers support a trace capability for enhanced debugging, allowing calls to be logged to an XML file.	The Signametrics compatible driver does not provide call tracing.	The Signametrics driver does not provide call tracing.
Calibration and verification	<ul style="list-style-type: none"> Improved self test Calibration can be performed by the customer and at Agilent service centers Calibration can be performed using the soft front panel, including single point calibration. Calibration constants file is encrypted for security and improved measurement traceability 	Calibration must be performed using the Agilent driver as described at left, then the DMM can be accessed using the Signametrics compatible driver version 2.00 or greater.	<ul style="list-style-type: none"> Return to factory required for calibration Calibration constants file is stored unencrypted
Connectors	The connectors on the Agilent DMMs plug into either Hybrid slots or Legacy slots in the PXI chassis.	The connectors on the Agilent DMMs plug into either Hybrid slots or Legacy slots in the PXI chassis.	The Signametrics DMMs plug into Legacy slots only in the PXI chassis.
Over range	The Agilent data sheet specifies DCV, ACV, DCI, ACI, and resistance with a most significant digit of 2 with 20% over range. For example, one DC voltage range is specified as 2.000000 V. With 20% over range, this equates to a 2.400000V maximum reading. The 300 V range provides 10% over range. Capacitance is specified with a most significant digit of 1 with a 20% over range capability.	The Agilent data sheet specifies DCV, ACV, DCI, ACI, and resistance with a most significant digit of 2 with 20% over range. For example, one DC voltage range is specified as 2.000000 V. With 20% over range, this equates to a 2.400000V maximum reading. The 300 V range provides 10% over range. Capacitance is specified with a most significant digit of 1 with a 20% over range capability.	The Signametrics data sheet specifies DCV, ACV, DCI, ACI, and resistance with two most significant digits of 24. For example, the DC voltage range corresponding to the voltage range at left is specified as 2.4000000 V.

Table 4: Summary of differences that apply to the Agilent M9181A and the Signametrics SMX2055

Specifications and Capabilities	Agilent M9181A DMM		Signametrics SMX2055 DMM
	Agilent driver (AgM918x.dll)	Signametrics SM2060.dll version ≥ 2.00	Signametrics SM2060.dll all versions
Number of digits	6½ —Agilent M9181A DMM has been enhanced to a 6 ½ digit DMM.	5½ —Agilent's M9181A has been enhanced to a 6½ digit DMM. When using the Signametrics compatible driver's service panel, only 5½ digits will show. Output to the PC is 6½ digits.	5½ —Signametrics SMX2055 is a 5½ digit DMM.
Accuracy of measurements	<ul style="list-style-type: none"> Agilent's DMMs employ a four point factory calibration algorithm to improve the linearity of the A-to-D converter. Design changes have been made to improve the temperature coefficient plus the drift of measurements over time. Design changes have also been made to improve the accuracy of both high current measurements and resistance measurements. 	The Agilent DMMs have improved accuracy and linearity even when using the Signametrics compatible driver for taking measurements, due to hardware enhancements to the M9182A and M9183A Agilent DMMs. The Agilent DMMs must be calibrated using the Agilent driver.	Some Signametrics accuracy specifications do not reflect guard banding.
DC Voltage, current, and resistance Performance	Performance improvements include: Current measurements with improved shunts, Improved stability in resistance measurements due to current source upgrade	All performance improvements mentioned at left apply, when using the Signametrics compatible driver, since improvements are due to hardware enhancements.	
AC Performance	Provides an AC voltage settling time to the specified accuracy that is three times faster than the Signametrics DMMs.	Provides an AC voltage settling time to the specified accuracy that is three times faster than the Signametrics DMMs, even when using the Signametrics compatible driver, since improvements are due to hardware enhancements.	
Method of specifying DMM accuracy	The Agilent M9181A datasheet specifies DMM accuracy as a percent of reading plus a percent of the full scale range (not including over range)	The Agilent datasheet applies - specified as a percent of reading plus a percent of the full scale range (not including over range).	Specified as a percent of reading plus an offset.
Autorangeing	Automatically changes the range until a valid measurement is obtained (or the topmost range is reached without obtaining a valid measurement).	Only changes the range once in attempting to obtain a valid measurement, then returns the original measurement if the measurement isn't valid. A program must be written to iterate through the ranges to ensure a valid measurement is obtained.	Only changes the range once in attempting to obtain a valid measurement, then returns the original measurement if the measurement isn't valid. A program must be written to iterate through the ranges to ensure a valid measurement is obtained.
Diode characterization	Diode characterization measurements can be taken by using the Ohms function. For example to use the 1 mA source, go to the 2 kΩ range. The result will be in Volts when measuring across a diode. (V=IR). The units will show ohms on the DMM, but the measurement will actually be volts.	The Signametrics compatible driver supports diode characterization for the Agilent M9181A DMM.	Signametrics 2055SMX DMM supports diode characterization
Software drivers	Agilent provides the following, standards-based drivers: <ul style="list-style-type: none"> IVI-COM IVI-C LabVIEW In addition, a MATLAB wrapper is provided.	The Signametrics compatible driver is based on a proprietary architecture and API. See the SMX2055 Operator's Manual for the driver API functions and parameters.	The Signametrics driver is based on a proprietary architecture and API. See the SMX2055 Operator's Manual for the driver API functions and parameters.
Simulation mode	The IVI-COM and IVI-C drivers support simulation mode. This allows programs to be developed in the absence of an actual DMM, and includes limit and error checking.	The Signametrics compatible driver does not support a simulation mode.	The Signametrics driver does not support a simulation mode.
Trace capability	The IVI-COM and IVI-C drivers support a trace capability for enhanced debugging, allowing calls to be logged to an XML file.	The Signametrics driver does not provide call tracing.	The Signametrics driver does not provide call tracing.
Calibration and verification	<ul style="list-style-type: none"> Improved self test Calibration can be performed by the customer and at Agilent service centers Calibration can be performed using the soft front panel Calibration constants file is encrypted for security and improved measurement traceability 	Calibration must be performed using the Agilent driver, then the DMM can be accessed using the Signametrics compatible driver version 2.00 or greater.	<ul style="list-style-type: none"> Return to factory required for calibration Calibration constants file is stored unencrypted

2. Differences in specifications and capabilities

This section describes the differences in specifications and capabilities between the Agilent and Signametrics DMMs over and above the differences listed in [Table 3](#) and [Table 4](#). This information is organized into the following subsections:

[2-A: Differences in specifications and capabilities between the Agilent M9181A and the Signametrics SMX2055 DMMs](#)

[2-B: Additional capabilities of the Agilent M9182A DMM compared to the Signametrics SMX2060 DMM](#)

[2-C: Differences in specifications and capabilities between the Agilent M9183A and the Signametrics SMX2064 DMMs](#)

[2-D: Differences in capabilities between the Signametrics SMX2064 manufactured before/after March 1, 2011.](#)

In referring to each Signametrics DMM capability, the section number and section name of the capability (as listed in the Signametrics Operator's Manual) are included. Refer to the Operator's Manual for additional information.

2-A: Differences in specifications and capabilities between the Agilent M9181A and Signametrics SMX2055

This section describes an additional capability of the Agilent M9181A compared to the Signametrics SMX2055. This capability is also listed in [Table 4](#).

- The M9181A is a 6 ½ digit DMM, the SMX2055 is a 5 ½ digit DMM.

2-B: Additional capabilities of the Agilent M9182A compared to the Signametrics SMX2060

This section describes an additional capability of the Agilent M9182A compared to the Signametrics SMX2060. This capability is over and above the differences listed in [Table 3](#).

- **2.9.2 Capacitance, Charge Balance Method**—This capability is available in the Agilent M9182A DMM. For Signametrics SMX2060 DMMs version D and earlier, this capability was not supported. This capability was added to SMX2060 DMMs at version E and later.

2-C: Differences in specifications and capabilities between the Agilent M9183A and Signametrics SMX2064

This section describes the differences between the Agilent M9183A and the Signametrics SMX2064 over and above the differences listed in [Table 3](#). Modified specifications are described first—these are cases where the M9183A specifications differ substantially from the SMX2064 specifications. Next, unavailable capabilities are described—these are SMX2064 capabilities that are not available with the M9183A when using an Agilent driver.

Modified specifications

The capabilities listed below are retained from the Signametrics SMX2064, but their specifications have changed substantially with the M9183A. For each capability, the section number/name of the feature in the Signametrics Operator's Manual is listed. Subsequently, the Signametrics specification and the Agilent specification are compared.

2.10.3 Duty Cycle Measurement—The Signametrics Operator’s Manual specifies the duty cycle measurement frequency range as 2 Hz to 100 kHz. The Agilent M9183A specifies this range as 2 Hz to 10 kHz. The narrower Agilent range reflects the actual capabilities of this measurement, and does not denote an implementation difference between the SMX2064 and M9183A DMMs.

2.10.4 Pulse Width— The Signametrics Operator’s Manual specifies the pulse width range as 2 μ s to 1 second. The Agilent M9183A specifies this range as 14 μ s to 62.5 ms. The narrower Agilent range reflects the actual capabilities of this measurement, and does not denote an implementation difference between the SMX2064 and M9183A DMMs.

Unavailable capabilities when using M9183A with the Agilent driver

Listed below are the SMX2064 capabilities that are unavailable when using the M9183A with the Agilent driver. These are listed by their section numbers and names from the Signametrics Operator’s Manual.

- 2.3.6 6-wire guarded resistance measurement. (not available with Signametrics compatible driver or Agilent driver)
- 2.4.2 AC Peak-to-Peak Measurement
- 2.4.3 AC Crest Factor Measurement
- 2.4.4 AC Median Value Measurement
- 2.4.5 Average AC Voltage Measurement
- 2.6 Leakage Measurement
- 2.9.1 Diode Characterization
- 2.9.3 Capacitance, In-Circuit Method
- 2.9.4 Inductance Measurement
- 2.11.4 Long Trigger (this special option is not available on the M9183A)
- 2.13.3 Source and Measure AC Voltage—The unavailability of this capability means that the following capabilities are also unavailable:
 - 4.11 Measuring the Resistance in a Series RC network
 - 4.13 Characteristic Impedance Measurement
- 2.13.5 Pulse Generator
- 4.20 Auxiliary VDC inputs—This capability allows the I+ and I- current measurement terminals to be used for additional voltage measurements when the main voltage input terminals (V+ and V-) are being used to measure another voltage.

Unavailable capabilities when using M9183A with Signametrics compatible driver SM2060.dll version 2.00 or greater

Most of the SMX2064 capabilities are available when using the M9183A with the Signametrics Compatible driver SM2060.dll version 2.00 or greater. The exceptions are:

- Inductance may be measured but not calibrated.
- 6-wire guarded resistance measurement capability has been removed

NOTE: Calibration of the M9183A must be done using the Agilent driver and procedures in the “Calibration and Verification Procedures” or at Agilent service centers.

2-D: Differences in capabilities between the Signametrics SMX2064 manufactured before/after March 1, 2011

The SMX2064 DMMs manufactured after March 1, 2011 do not include 6-wire guarded resistance measurement capability.

3. Differences in the calibration and verification procedures

The primary differences between the Agilent and Signametrics DMMs regarding calibration and verification are:

- The Agilent DMMs can only be calibrated using the Agilent drivers. These drivers cannot calibrate the Signametrics DMMs.
- With the Agilent DMMs, automatic calibration has been added to self test. With the Signametrics DMMs, automatic calibration is not part of self test and is run separately.
- The Agilent DMMs can be calibrated by the customer or at an Agilent service center. Agilent provides the detailed document “Calibration and Verification Procedures” to guide the customer in performing calibration of the M9181A, M9182A and M9183A DMMs. The Signametrics DMMs may be returned to Agilent until September 21, 2012 for calibration. After September 31, 2012 Signatest or other 3rd party providers may be able to offer calibration services.
- With the Agilent M9183A/M9183A DMMs, there is no need to attach capacitors to determine the capacitance calibration constants as is required for the Signametrics DMMs. With the Agilent DMMs, the capacitance calibration constants are calculated based on the resistance calibration constants.
- The Signametrics DMM calibration constants are stored unencrypted in a file that is, by default, at the root level of the C: drive. The Agilent DMM calibration constants are stored encrypted in a file. The Agilent default folder and file name are:

`C:\Documents and Settings\All Users\Application Data\Agilent\PXI Modules\AgM918x\SNx<SN>.cal`

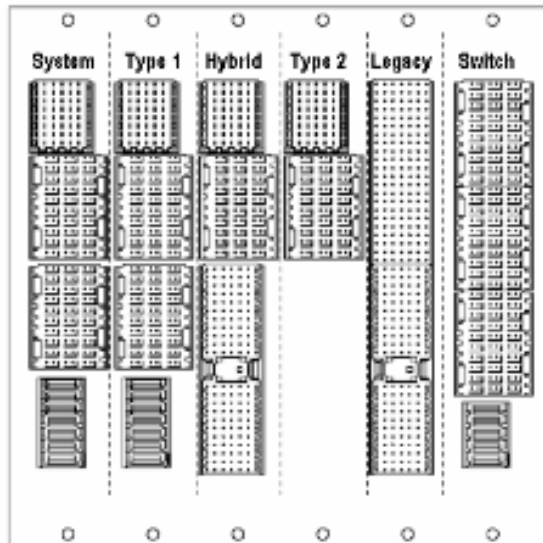
The “x” in the file name is either “1” for the M9181A, “2” for the M9182A or is “3” for the M9183A.

4. Differences in connectors

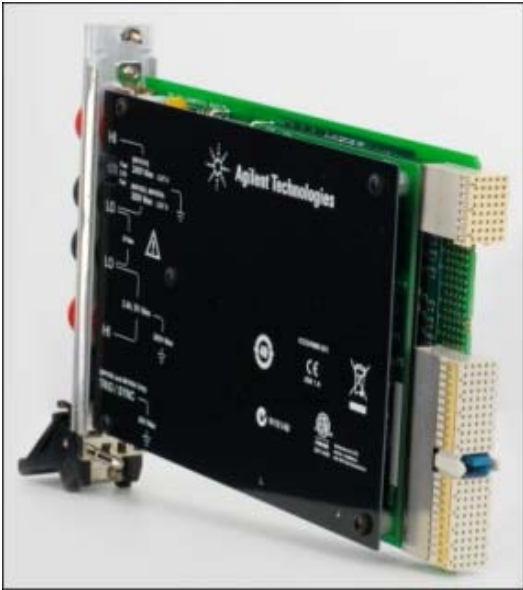
The Signametrics SMX2055/SMX2060/SMX2064 DMMs contain the full CompactPCI connector as shown on the SMX2064 below. The Signametrics DMMs use only the 32-bit interface of the CompactPCI interface.



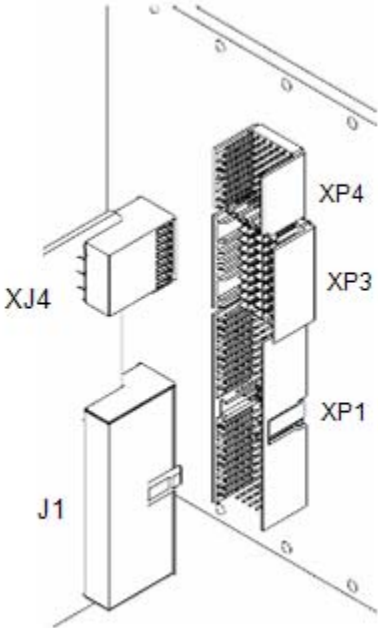
Shown below are several types of chassis slots. The Signametrics DMMs plug into PXI chassis containing Legacy slots.



The Agilent M9182A/M9183A DMMs have the following connector configuration:



The Agilent M9182A/M9183A DMMs plug into PXI chassis containing either Hybrid slots or Legacy slots as shown on the chassis slot diagram on the previous page. Shown below are the two connectors on the Agilent DMM being plugged into a Hybrid slot:



The Agilent M9181A DMM plug into PXI chassis containing either Hybrid slots or Legacy slots as shown on the chassis slot diagram on the previously. Shown below is the one connector on the Agilent M9181A DMM being plugged into a Hybrid slot:

