

IVI.NET driver history for the R&S[®] HMC8012 Digital Multimeter

[HMC8012](#)



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1 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Instrument	Supported Firmware	Remarks
HMC8012	1.400	

2 Revision history

2.1 Version 1.7.0 / 04 – 2024

- * New Core 3.14.0
- * Using IVI.NET Shared Components 2.0.0
- * New properties/methods:
 - HmDmm.MeasurementSpecific.FetchSecondFunction(PrecisionTimeSpan)
 - HmDmm.MeasurementSpecific.FetchSecondFunction()
 - HmDmm.UtilityFunctions.QueryOPC()
 - HmDmm.UtilityFunctions.QueryOPC(int)
 - HmDmm.UtilityFunctions.InstrumentOptions()
 - HmDmm.UtilityFunctions.HasOptionInstalled(string)
 - HmDmm.UtilityFunctions.SetOpcSyncWrite(bool)
 - HmDmm.UtilityFunctions.GetOpcSyncWrite()
 - HmDmm.UtilityFunctions.SetOpcSyncQuery(bool)
 - HmDmm.UtilityFunctions.GetOpcSyncQuery()
 - HmDmm.UtilityFunctions.SetOpcSyncQueryMechanism(bool, bool, bool)
 - HmDmm.UtilityFunctions.QueryWithOPCSync(string, int?)
 - HmDmm.UtilityFunctions.WriteCommandWithOPCSync(string, int?)
- * Deleted properties/methods:
 - HmDmm.UtilityFunctions.QueryOPC - replaced by a new function

2.2 Version 1.6.1 / 04 – 2021

- * New Core 2.14.1
- * Fixed critical driver initialization error when Option Checking is ON

2.3 Version 1.6.0 / 02 – 2021

- * New driver core 2.13.0
- * Changing namespace from Hameg to RohdeSchwarz

2.4 Version 1.5.0 / 06 – 2019

- * New driver core 2.5.0.0
- * Included automatic repetition of a measurement when the instrument returns an invalid measured value, e.g. during changing the range in auto range mode.
 - Affected methods:
 - driver.Measurement.Read()
 - driver.Measurement.Fetch()
 - driver.Base.Measure()
- * Added IVI-mandatory members to driver.System
 - Changed interface IHmDmmUtilityFunctions:
 - Removed WriteToInstrument (replaced with `_driver.System.WriteString`)
 - Removed ReadInstrumentData (replaced with `_driver.System.ReadString`)
 - Removed ReadBinaryBlockToStream (Replaced with `_driver.System.ReadBytes`)

2.5 Version 1.4.0 / 07 – 2017

- * New core 3.9.0
- * IVI.NET shared components 1.4.0 used
- * New properties/methods:
 - HmDmm.Base.ActualInstrumentConfiguration
 - HmDmm.FrequencyMeasurement.FreqCurrenAutotRange
 - HmDmm.FrequencyMeasurement.FreqCurrentRange
 - HmDmm.Continuity.ContinuityBeeper
 - HmDmm.Continuity.ContinuityThreshold
 - HmDmm.Diode.DiodeBeeper
 - HmDmm.Diode.DiodeThreshold
 - HmDmm.MeasurementSpecific.ADCRate
 - HmDmm.Math.MathDCPower
 - HmDmm.Data and File Management.DataLogging
 - HmDmm.Data and File Management.DataLoggingFileFormat
 - HmDmm.Data and File Management.DataLoggingMode
 - HmDmm.Data and File Management.DataLoggingTime
 - HmDmm.Data and File Management.DataLoggingMeasurementInterval
 - HmDmm.Data and File Management.DataLoggingMeasurementCount
 - HmDmm.TemperatureMeasurement.MeasureTemperature()
 - HmDmm.DataAndFileManagement.FileName()
 - HmDmm.DataAndFileManagement.ReadLoggingFileData()
 - HmDmm.DataAndFileManagement.DeleteLoggingFileData()
 - HmDmm.DataAndFileManagement.NumberOfLoggingValues()
 - HmDmm.DataAndFileManagement.ListAllLoggingFilesData()
- * Modified properties/methods:
 - HmDmm.Hardcopy.Format - Added *WAI to SCPI command
 - HmDmm.Hardcopy.SizeX - Added *WAI to SCPI command
 - HmDmm.Hardcopy.SizeY - Added *WAI to SCPI command
 - HmDmm.UtilityFunctions.IDQueryResponse - Added empty callbacks and default value
- * Modified Range Tables:
 - MeasurementFunction.Sensor - HMDMM_ATTR_FUNCTION
Command changed ("SENS", "TEMP")
 - MeasurementFunction.Sensor - HMDMM_ATTR_FUNCTION
Enum name changed ("Sensor", "Temperature")
 - MeasurementFunction.Sensor - HMDMM_ATTR_FUNCTION
Help changed ("Sets the DMM to sensor measurement function", "Sets the DMM to measure temperature")
 - MeasurementFunction.Capacitance - HMDMM_ATTR_FUNCTION

- Command changed ("CAP", "CAPA")
- MeasurementFunction - HMDMM_ATTR_FUNCTION
New items: FreqCurrent
- MathFunction - HMDMM_ATTR_MATH_FUNCTION
New items: Power

2.6 Version 1.2.2 / 03 – 2017

- * Changed only the installer, no changes to the driver assembly.
- * Added Example SimpleIviDmmClassExample

2.7 Version 1.2.1 / 02 – 2016

Installer compliant with IVI 3-17:

- side-by-side installation - more driver versions can be installed at the same time, older versions must be uninstalled manually

- installation paths changed

64-bit driver installation path: "c:\Program Files\IVI
Foundation\IVI\Microsoft.NET\Framework64\v4.0.30319\RohdeSchwarz.HmDmm 1.2.1.0"

32-bit driver installation path: "c:\Program Files (x86)\IVI
Foundation\IVI\Microsoft.NET\Framework32\v4.0.30319\RohdeSchwarz.HmDmm 1.2.1.0"

2.8 Version 1.2.0 / 05 – 2016

* New properties/methods:

- HmDmm.UtilityFunctions.AddStreamLogger()
- HmDmm.UtilityFunctions.RemoveStreamLogger()
- HmDmm.UtilityFunctions.WriteStringToLog()
- HmDmm.UtilityFunctions.WriteToInstrument()
- HmDmm.UtilityFunctions.ReadInstrumentData()
- HmDmm.UtilityFunctions.ReadBinaryBlockToStream()
- HmDmm.UtilityFunctions.QueryBool()
- HmDmm.UtilityFunctions.QueryInt32()
- HmDmm.UtilityFunctions.QueryDouble()
- HmDmm.UtilityFunctions.QueryString()
- HmDmm.UtilityFunctions.Reset()
- HmDmm.UtilityFunctions.SelfTest()
- HmDmm.UtilityFunctions.ErrorMessage()
- HmDmm.UtilityFunctions.RevisionQuery()
- HmDmm.UtilityFunctions.Delay()
- HmDmm.UtilityFunctions.ErrorQueryAll()
- HmDmm.UtilityFunctions.IDNQueryResponse
- HmDmm.UtilityFunctions.ProcessAllPreviousCommands
- HmDmm.UtilityFunctions.ClearStatus
- HmDmm.UtilityFunctions.Logging
- HmDmm.UtilityFunctions.OPCTimeout
- HmDmm.UtilityFunctions.QueryOPC
- HmDmm.UtilityFunctions.VisaTimeout
- HmDmm.UtilityFunctions.VisaManufacturer
- HmDmm.UtilityFunctions.OptionChecking

* Modified properties/methods:

- HmDmm.Hardcopy.Format - Added *WAI to SCPI command
- HmDmm.Hardcopy.SizeX - Added *WAI to SCPI command
- HmDmm.Hardcopy.SizeY - Added *WAI to SCPI command
- HmDmm.UtilityFunctions.IDQueryResponse - Added empty callbacks and default value
- HmDmm.UtilityFunctions.IDNQueryResponse - SCPI Command added, changed to read-only.

* Modified Range Tables:

- TemperatureSensorType.Pt100 - Description changed ("Pt 100", "")
- TemperatureSensorType.Pt500 - Description changed ("Pt 500", "")
- TemperatureSensorType.Pt1000 - Description changed ("Pt 1000", "")

2.9 Version 1.1.0 / 04 – 2013

* Initial Release

3 Customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

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