

readme\_demo.txt

DAQmx Library for HTBasic (Demo)

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This is the installation program for the DAQmx DLL library for TransEra HTBasic 9.0 and higher (demo version).

Version: 1.60.013  
Date: 21-Oct-2009

This file contains the latest information about the DAQmx Library for HTBasic Demo Release. Please read carefully BEFORE you install the software.

The DAQmx Library for HTBasic Demo is free software and may be used by any number of users on any number of systems without fee or obligation, subject only to the terms and conditions laid out in the license.txt file.

#### Distribution

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If you want to order to full version of the DAQmx Library for HTBasic you can buy it from the following HTBasic distributors:

Country	Company	Website
Germany	Tech Soft	www.HTBasic.de
Worldwide	Tech Soft	www.HTBasic.de

#### Special notes for the demo version

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The latest demo version can be downloaded from <http://www.TechSoft.de/daqmx>

The programming functionality of demo version is not limited. However, some limitations apply:

- A "demo" dialog box will be displayed from time to time
- The demo version only supports simulated devices defined in NI-MAX (Measurement & Automation Explorer).
- We only provide limited support for the demo version
- The demo version only supports simulated devices

#### System requirements

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The DAQmx Library for HTBasic is designed to run on Windows 98, Windows Me and Windows NT/2000/XP/2003. It is an add-on library for HTBasic for Windows and does not run as a standalone application. HTBasic for Windows 9.X is fully supported. Older HTBasic versions can be used with limitations.

Under Windows 9x a minimum of 16MB RAM is recommended. Windows Me/NT/2000 requires 64MB of RAM, 128 MB RAM is recommended. Windows XP requires 128 MB, Windows 2003 requires 512 MB RAM. Approximately 10 MB of free disk space is required in order to install the files.

The Measurement & Automation Explorer version 8.0 or higher from National Instruments must be installed before you can use the

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DAQmx Library for HTBasic software.

IMPORTANT: 'Support for Microsoft Visual C' must be installed.

\*\*\* IMPORTANT NOTE !! \*\*\*

The library is compatible with NI-DAQ 9.0 (released July 2009).  
The installer automatically detects the installed NI-DAQ version by  
checking the registry and install the proper HTBasic driver DLL.

If you have installed a newer NI-DAQ version \*after\* you have installed  
the DAQmx for HTBasic Library you must install the DAQmx for HTBasic Library  
again. Setup will then update your installation in order to support the  
newer functions.

#### Example Programs

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After the installation you will find several example programs in the directory  
"HTB EXAMPLES".

The example programs can be used as follows:

- Start HTBasic for Windows
- If not yet configured long filenames, enter the following command:  
CONFIGURE LONGFILENAMES ON
- Select the option "Change MSI on Open" in the File menu of HTBasic.
- In HTBasic, Select "File -> Open..." and go to the examples directory  
(e.g. "c:\Program Files\Tech Soft\DAQmx for HTB Demo\HTB Examples")
- LOAD the desired example program, e.g. "Combined\_daqmx\_example.prg"
- Start the example program (RUN)
- Follow the instructions on the screen

#### Online Documentation

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We provide a comprehensive pdf manual (170+ pages).

#### Support

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If you have questions or problems please report them to:

Tech Soft GmbH  
Test & Measurement Division  
Karmeliterweg 114  
13465 Berlin, Germany

Email: [HTB@TechSoft.de](mailto:HTB@TechSoft.de)  
<http://www.TechSoft.de>

#### List of new features and fixes since last release

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21-Oct-2009

- New function DAQmx\_SelfTestDevice

17-Mar-2009

- Now compatible with HTBasic 10.0

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- New function FNHx\_getsfpath\$
  - Updated documentation
  - Installer / uninstaller now digitally signed
- 06-Nov-2008
- One new calibration function:  
DAQmxGetAIDevScalingCoeff
- 29-Sep-2008 \*\* 1.40.039 \*\*
- Three new calibration functions:  
DAQmxGetAIChanCalPolyForwardCoeff  
DAQmxSetAIChanCalPolyForwardCoeff  
DAQmxResetAIChanCalPolyForwardCoeff
- 27-Mar-2008 \*\* 1.40.038 \*\*
- Small file permission fix in function library file "daqmx\_htb.lib"
  - HTBasic library will now work with earlier daqmx\_htb.dll files when a newer NI-DAQmx version is installed (this works around a problem introduced by NI in NI-DAQmx 8.7.1)
  - Revised example program "EveryNSamples\_callback\_test.prg"
- 07-Mar-2008 \*\* 1.40.036 \*\*
- NI-DAQmx 8.7.1 is now fully supported (8 new functions)
  - Updated manual includes all new functions for NI-DAQmx 8.7.1
- 01-Feb-2008 \*\* 1.30.033 \*\*
- Demo version now supports up to two physical tasks on real hardware
- 06-Dec-2007 \*\* 1.30.033 \*\*
- 15 new functions implemented:  
DAQmxGetCalDevTemp, DAQmxGetSelfCalLastTemp, DAQmxGetExtCalLastTemp  
DAQmxGetSelfCalLastDateAndTime, DAQmxGetExtCalLastDateAndTime  
DAQmxRestoreLastExtCalConst, DAQmxChangeExtCalPassword  
DAQmxGetExtCalRecommendedInterval, DAQmxAdjustDSAAICal  
DAQmxAdjustDSAAOCal, DAQmxAdjustDSATimebaseCal  
DAQmxAdjust4204Cal, DAQmxAdjust4220Cal, DAQmxAdjust4224Cal  
DAQmxAdjust4225Cal
  - Documentation updated
- 02-Oct-2007 \*\* 1.30.031 \*\*
- 41 brand new functions for compatibility with NI-DAQmx 8.6
  - Setup now detects if a proper NI-DAQ driver software is installed and terminates the installation if the required driver software could not be found
  - Updated pdf manual, covering all new 250+ functions
  - Updated installer, now detects future NI-DAQmx versions >8.6
- 05-Sep-2007 \*\* 1.20.027 \*\*
- 216 brand new functions for compatibility with NI-DAQmx 8.5
- 04-Jul-2007 \*\* 1.13.007 \*\*
- FNHx\_init: Now detects HTBasic version mismatch (required: HTBasic 9.0)
  - Proper daqmx\_htb.dll will be automatically loaded (runtime / development)
- 26-Jun-2007 \*\* 1.13.006 \*\*
- Added new example program "ContGen-IntClk.prg"
  - Added new example program "VoltUpdate.prg"