

MXAPI (MX100) Data Acquisition Sample Program

Overview

This sample displays only one channel.

Description

Displays the data from the top channel of the top FIFO as a waveform.

The period of communication with the MX is 100 ms. All settings are fixed.

FIFO number: 0

Channel index within FIFO: 0

Range setting: 2 V range

No. of points displayed: 500

Top channel of top FIFO means the channel of the module with the fastest cycle whose number is the smallest.

Files

MXR1SampleVB

Visual Basic sample using the MX100 API (R1.01)

MXR2SampleVB

Visual Basic sample using the MX100 API (R2.01)

The difference from R1.01 is that a utility function is used for the validity check of the data numbers.

MX100R2SampleVB

Visual Basic sample using the MX100 extended API (R2.01)

MXR1SampleVC

Visual C sample using the MX100 API (R1.01)

MXR2SampleVC

Visual C sample using the MX100 API (R2.01)

The difference from R1.01 is that a utility function is used for the validity check of the data numbers.

MX100R2SampleVC

Visual C sample using the MX100 extended API (R2.01)

MXR1SampleVCpp

Visual C++ sample using the MX100 API (R1.01)

MXR2SampleVCpp

Visual C++ sample using the MX100 API (R2.01)

The difference from R1.01 is that a utility function is used for the validity check of the data numbers.

MX100R2SampleVCpp

Visual C++ sample using the MX100 extended API (R2.01)

MX100R2SampleVBNET

Visual Basic.NET sample using the MX100 extended API (R2.01)

MX100R2SampleVCS

C# sample using the MX100 extended API (R2.01)

Instructions

Expand the archive file, then install the MXAPI located in the folder created.

Procedure:

Enter the host name or IP address in the text box, then click the Start button.

Buttons:

Start

Opens communications, and starts FIFO and data display.

Stop

Stops data display and FIFO, and cuts communications.

Close

Forces the application to close.

Function Details

Visual Basic, Visual Basic.NET

DrawWaveMX.bas, DrawWaveMX100.bas, DrawWaveMX100.vb

SetWave

Displays the data values in the specified label.

Data values are converted to display values and stored at the end of the display array.

DrawWave

Plots the values from the display array on the specified picture.

RunDraw

Gets measured data until the stop flag changes.

The obtained data is stored, and the draw function is called.

StopDraw

Changes the stop flag.

C#

DrawWaveMX100.cs

DrawWaveMX100.SetWave

Displays the data values in the specified label.

Data values are converted to display values and stored at the end of the display array.

DrawWaveMX100.DrawWave

Plots the values from the display array on the specified picture.

DrawWaveMX100.RunDraw

Gets measured data until the stop flag changes.

The obtained data is stored, and the draw function is called.

DrawWaveMX100.StopDraw

Changes the stop flag.

Visual C

MX100.c

startMeas

Opens communication, and starts FIFO.

stopMeas

Stops FIFO, and cuts communication.

getMeasData

Gets the measured data.

Displays the data values in the label of the specified resource ID.

Data values are converted to display values and stored at the end of the display array.

Issues a message and executes the display.

Drawing is performed by the CCSampleDlg class.

Visual C++

MX100.cpp

CMX100::startMeas

Opens communication, and starts FIFO.

CMX100::stopMeas

Stops FIFO, and cuts communication.

CMX100::getMeasData

Gets the measured data.

Displays the data values in the label of the specified resource ID.

Data values are converted to display values and stored at the end of the display array.

Issues a message and executes the display.

Drawing is performed by the CCPPSampleDlg class.

Comments

Refer to "Retrieval of the Measured Data" in the manual for more information.

Error processing not covered.

The program for Visual Basic.NET/C# is created in Visual Studio.NET 2003.

Notes

This sample is free software.
No support is guaranteed.
Use at your own risk.