

MXAPI (DARWIN) Data Acquisition Sample Program

Overview

This sample displays only one channel.

The API and extended API sample programs use the command port, and the instantaneous value data reading sample programs use the instantaneous value data reading port.

Description

Displays the waveform of the data from the top channel.

Displays the instantaneous data values.

The communication interval with the DARWIN main unit is 0.5 seconds.

All settings are fixed.

Channel type (subunit number): 0

Channel number: 1

Range setting: 2 V range

No. of points displayed: 500

Files

DarwinR2SampleVB

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

DA100R2SampleVB

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

DA100ReaderR2SampleVB

Visual Basic sample for reading instantaneous value data using the DARWIN extended API (R2.01)

DarwinR2SampleVC

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

DA100R2SampleVC

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

DA100ReaderR2SampleVC

Visual C sample for reading instantaneous value data using the DARWIN extended API (R2.01)

DarwinR2SampleVCpp

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

DA100R2SampleVCpp

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

DA100ReaderR2SampleVCpp

Visual C++ sample for reading instantaneous value data using the DARWIN extended API (R2.01)

DA100R2SampleVBNET

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

DA100ReaderR2SampleVBNET

Visual Basic.NET sample for reading instantaneous value data using the DARWIN extended API (R2.01)

DA100R2SampleVCS

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

DA100ReaderR2SampleVCS

C# sample for reading instantaneous value data using the DARWIN 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 displays data.

Stop

Stops data display and cuts communication.

Close

Forces the application to close.

Function Details

Visual Basic, Visual Basic.NET

DrawWaveDarwin.bas, DrawWaveDA100.bas, DrawWaveDA100Reader.bas,
DrawWaveDA100.vb, DrawWaveDA100Reader.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#

DrawWaveDA100.cs

DrawWaveDA100.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.

DrawWaveDA100.DrawWave

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

DrawWaveDA100.RunDraw

Gets measured data until the stop flag changes.

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

DrawWaveDA100.StopDraw

Changes the stop flag.

DrawWaveDA100Reader.cs

DrawWaveDA100Reader.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.

DrawWaveDA100Reader.DrawWave

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

DrawWaveDA100Reader.RunDraw

Gets measured data until the stop flag changes.

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

DrawWaveDA100Reader.StopDraw

Changes the stop flag.

Visual C

DA100.c, DA100Reader.c

startMeas

Opens communication.

stopMeas

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++
DA100.cpp

CDA100::startMeas

Opens communication.

CDA100::stopMeas

Cuts communication.

CDA100::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.

Comment

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.