

MXAPI (MX100) Data Acquisition Sample Program

Overview

This program displays XY plots.

Description

Two channels from the start of the top FIFO are displayed.

The first and second channels are set to the X and Y axes, respectively.

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

FIFO number: 0

X channel: Channel index 0 within FIFO

Y channel: Channel index 1 within FIFO

Range setting: 2 V range

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

Files

MXR1XYSampleVB

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

MXR2XYSampleVB

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.

MX100R2XYSampleVB

Visual Basic 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

DrawXYMX100.bas

SetWaveX, SetWaveY

Displays the data values in the specified label.

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

DrawXY

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.

Comment

For information on data acquisition, see section on "Retrieval of the Measured Data" in the manual.

Error processing not covered.

Notes

This sample is free software.

No support is guaranteed.

Use at your own risk.