



*Conceiving, Planning and Development in scientific electronics*

# **MT2 LABVIEW LIBRARY**

## **USER MANUAL**

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# MT2 Labview Library



LabVIEW development tool gives the feasibility of **MT2** device remote control. This control can be achieved through the use of the eight functions implemented in LabVIEW 7.1 and included in the library **MT2\_Library**: thanks to these functions you do not have to know the details of the communication protocol and the application development is quick and easy.

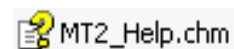
The functions have two development levels: *MT2\_Low\_Level\_Communication.llb* contains the four functions through which is possible to manage the connection with the **MT2** card.



*MT2\_Application.llb* contains the other four functions realized through the use of the previous ones: these higher level functions allow the assignment of the commands recognized by the device. Use *MT2\_Application.llb* for application development, while *MT2\_Low\_Level\_Communication* for maximize performances.

	Function	Properties
<i>MT2_Low_Level_Communication.llb</i>	<i>Close_Device.vi</i>	Closes the connection established with one of the available protocols.
	<i>Open_Device.vi</i>	Opens the connection with one of the available protocols.
	<i>Write&amp;Read.vi</i>	Sends and receives ASCII characters.
	<i>Write_Command.vi</i>	Sends ASCII characters.
<i>MT2_Application.llb</i>	<i>Close_dialogue.VI</i>	Ends the communication with the <b>MT2</b> card.
	<i>Read.vi</i>	Interprets characters sent by the device.
	<i>Send_Command.vi</i>	Imparts the commands implemented on the device.
	<i>Start_dialogue.vi</i>	Starts dialogue session with the <b>MT2</b> card.

**MT2\_Library** is provided with a help file, *MT2\_Help.chm*.



The help explains deeper the functions in the library.

*MT2\_Help.chm*, information of which are available in LabVIEW too, gives structural description of all the eight functions. Graphical representations are realized, so that the user may easily understand how they work in the tool in which they were build. Next figure displays the help of the library.



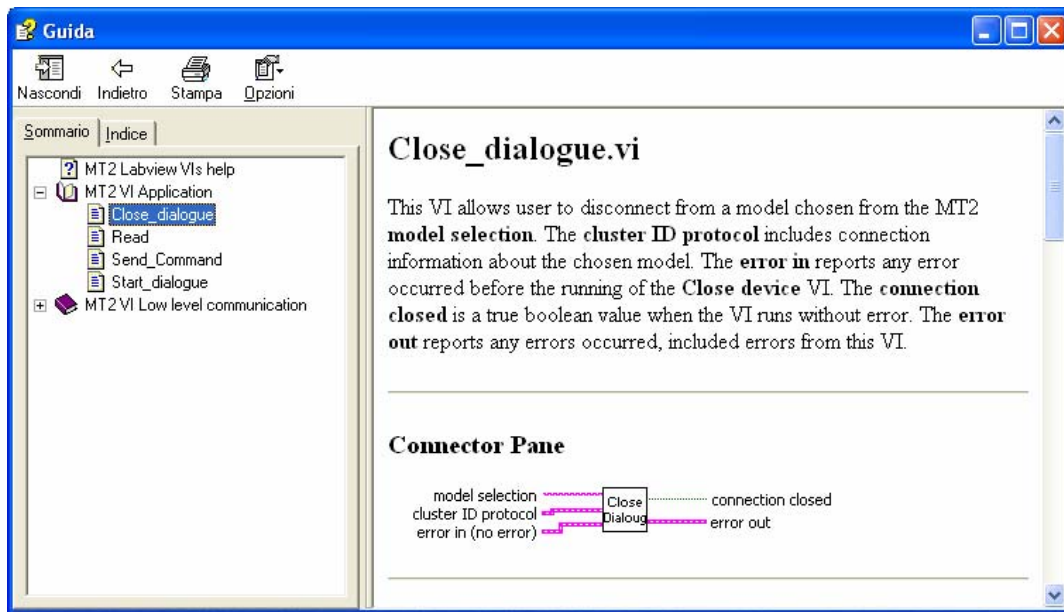


Figure 1: LabVIEW functions help.

## Installation

Run *Installer\_MT2\_Library.exe* to install all files of **MT2\_Library**. These files will be placed in the folder *C:\VIPSES\_Lib*. To avoid any problem in the functions, do not move *MT2\_Help.chm* and *FTD2XX.dll* from directory *C:\VIPSES\_Lib*.

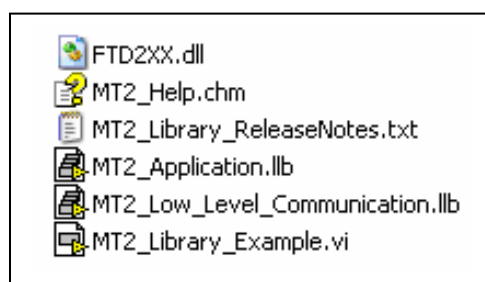
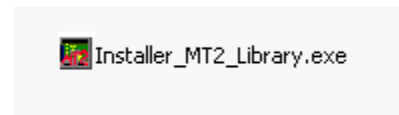


Figure 2: installed files.

The installed folder *C:\VIPSES\_Lib\LabVIEW7.0* contains the files to be used with the previous version *LabVIEW 7.0*. NI-VISA is a single library of functions you use to communicate with GPIB, serial, VXI, and computer-based instruments in *LabVIEW*. You no longer need to use separate I/O palettes to program an instrument. For example, some instruments ship with a

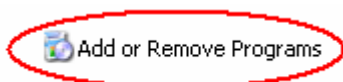
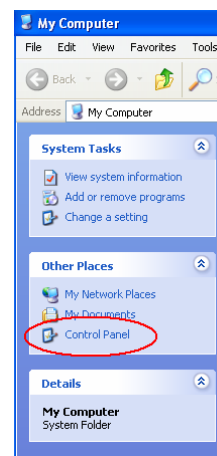


choice for the type of interface. If the *LabVIEW* instrument driver was written with functions from the GPIB palette, those instrument driver VIs would not work for the instrument with the serial port interface. VISA solves this problem by providing a single set of functions that work for any type of interface. Therefore, VISA is used as the I/O language in all *LabVIEW* instrument drivers. NI-VISA is automatically installed.

## Removal

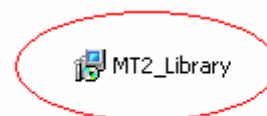
To correctly remove **MT2\_Library**, follow the instructions listed below.

- 1) From Desktop, click "My Computer" icon and choose "Control Panel".



- 2) Click "Add or Remove Programs" from the resource list displayed.

- 3) From program installed list select "MT2\_Library" and proceed removal with "Change/Remove".



- 4) Follow the instructions displayed.

- 5) Delete the folder *C:\IPSES\_Lib*.

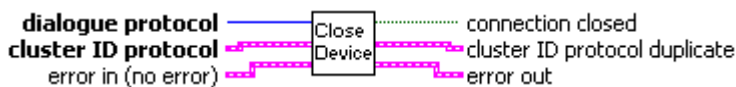


# Close\_Device.vi

This VI allows user to disconnect connection from MT2 devices. The connection is chosen by the **dialogue protocol** and its description is enclosed in the **cluster ID protocol**. The **error in** reports any error occurred before the running of **Close\_device** VI. The **connection closed** is a true boolean value when the VI runs without error. The **error out** reports any errors occurred, included errors from this VI.

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## Connector Pane



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## Controls and Indicators

### **error in (no error)**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in case of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

### **code**

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

### **source**

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

### **cluster ID protocol**

#### **Handle**

The **Handle** contains identification of connection via D2XX library.

#### **VISA resource name**

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

#### **connection ID**

The **connection ID** is a network connection reference number to identify uniquely



the TCP connection you want to close.

### **dialogue protocol**

The **dialogue protocol** relates about the chosen communication standard.

### **cluster ID protocol duplicate**

#### **duplicate Handle**

The **duplicate Handle** is a duplicate of input Handle.

#### **duplicate VISA resource name**

The **duplicate VISA resource name** is a duplicate of input VISA resource name.

#### **duplicate connection ID**

The **duplicate connection ID** is a duplicate of input connection ID.

### **connection closed**

The **connection close** refers about correct ending of the connection.

### **error out**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **code**

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **source**

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.



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## Error code

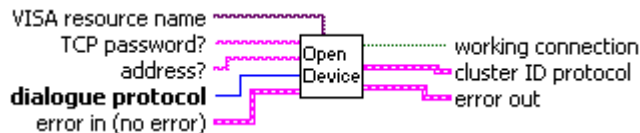
Code	Description
210	Impossible to close MT2 USB D2XX

## Open\_Device.vi

This VI allows user to open connection to MT2 devices, chosen by the **dialogue protocol**. The **TCP password?** has to be communicated if TCP/IP is chosen in **dialogue**. The **cluster ID protocol** encloses communication protocol description. The **error in** reports any error occurred before the running of **Open device** VI. The **working connection** is a true boolean value when the VI runs without error. The **error out** reports any errors occurred, included errors from this VI.

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## Connector Pane



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## Controls and Indicators

### **dialogue protocol**

The **dialogue protocol** relates about the chosen standard of communication.

### **error in (no error)**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in case of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

### **code**

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.



**abc** **source**

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

**abc** **TCP password?**

The **TCP password?** requires password to allows connection to MT2 device via ethernet.

**I/O** **VISA resource name**

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

**abc** **address?**

The **address?** requires TCP address to allows connection to MT2 device via ethernet.

**TF** **error out**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

**TF** **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

**I32** **code**

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

**abc** **source**

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

**TF** **working connection**

The **working connection** refers about correct working of the connection.



## cluster ID protocol

### Handle

The **Handle** contains identification of connection via D2XX library.

### VISA resource name

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

### connection ID

The **connection ID** is a network connection reference number to identify uniquely the TCP connection you want to close.

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## Error code

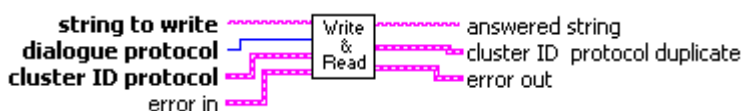
Code	Description
220	Error to connect MT2 USB D2XX
221	Error to set D2XX baud rate
222	Error to set D2XX data characteristics
223	Error to set D2XX flow control
224	Error to set D2XX time out
225	Timeout TCP/IP connection
226	TCP/IP password incorrect

## Write&Read.vi

This VI allows user to send request to MT2 devices. Questions have to be defined in **string to write** to obtain answers in **answered string**. The **dialogue protocol** conveys communication protocol and the **cluster ID protocol** encloses communication protocol description. The **cluster ID protocol duplicate** is a duplicate of the **cluster ID protocol**. The **error in** reports any error occurred before the running of **Open device**. The **error out** reports any errors occurred, included errors from this VI.

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## Connector Pane



## Controls and Indicators



### string to write

The **string to write** contains strings to be passed to MT2 device.



### cluster ID protocol



#### Handle

The **Handle** contains identification of connection via D2XX library.



#### duplicate VISA resource name

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.



#### connection ID

The **connection ID** is a network connection reference number to identify uniquely the TCP connection you want to close.



### dialogue protocol

The **dialogue protocol** relates about the chosen communication standard.



### error in

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in case of errors from other VIs.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.



#### status

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.



#### code

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.



#### source

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.



### answered string

The **answered string** contains strings from MT2 device.



### cluster ID protocol duplicate

#### duplicate Handle

The **duplicate Handle** is a duplicate of input Handle.

#### duplicate VISA resource name

The **duplicate VISA resource name** is a duplicate of input VISA resource name.

#### duplicate connection ID

The **duplicate connection ID** is a duplicate of input connection ID.

### error out

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### status

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### code

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### source

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

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### Error code

Code	Description
230	Write error to MT2 USB D2XX
231	Read error from MT2 USB D2XX

## Write\_Command.vi

This VI allows user to send command to MT2 devices. Commands have to be sent in the **string to write**. The **dialogue protocol** conveys communication protocol and the **cluster ID protocol** encloses communication protocol description. The **cluster ID protocol duplicate** is

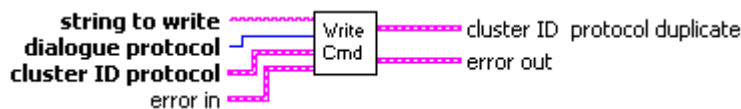
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a duplicate of the **cluster ID protocol**. The **error in** reports any error occurred before the running of **Write\_Command** VI. The **error out** reports any errors occurred, included errors from this VI.


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## Connector Pane





## Controls and Indicators

 **string to write**  
The **string to write** contains strings to be passed to MT2 device.

 **error in**  
The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in case of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.


 **status**  
The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

 **code**  
The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

 **source**  
The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

 **cluster ID protocol**

 **Handle**  
The **Handle** contains identification of connection via D2XX library.

 **VISA resource name**  
The **VISA resource name** specifies the resource to be opened. This control also



specifies session and class. It is to be used with the serial protocol.

#### **connection ID**

The **connection ID** is a network connection reference number to identify uniquely the TCP connection you want to close.

#### **dialogue protocol**

The **dialogue protocol** relates about the chosen standard of communication.

#### **error out**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **code**

The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **source**

The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives further information about the error displayed.

#### **cluster ID protocol duplicate**

##### **duplicate Handle**

The **duplicate Handle** is a duplicate of input Handle.

##### **duplicate VISA resource name**

The **duplicate VISA resource name** is a duplicate of input VISA resource name.

##### **duplicate connection ID**

The **duplicate connection ID** is a duplicate of input connection ID.



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## Error code

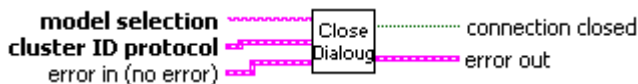
Code	Description
230	Write error to MT2 USB D2XX

## Close\_dialogue.vi

This VI allows user to disconnect from a model chosen from the MT2 **model selection**. The **cluster ID protocol** includes connection information about the chosen model. The **error in** reports any error occurred before the running of the **Close device** VI. The **connection closed** is a true boolean value when the VI runs without error. The **error out** reports any errors occurred, included errors from this VI.

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### Connector Pane



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### Controls and Indicators

#### **error in (no error)**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in case of errors from other VIs.

#### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

#### **code**

The **code** input identifies the error or warning.

#### **source**

The **source** string describes the origin of the error or warning.

#### **model selection**

The **model selection** contains the list of MT2 models. Each model has its own standard dialogue.



## cluster ID protocol

### **Handle**

The **Handle** contains identification of connection via D2XX library.

### **VISA resource name**

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

### **connection ID**

The **connection ID** is a network connection reference number that uniquely identifies the TCP connection you want to close.

## error out

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

### **code**

The **code** input identifies the error or warning.

### **source**

The **source** string describes the origin of the error or warning.

## connection closed

The **connection close** refers about correct ending of the connection.

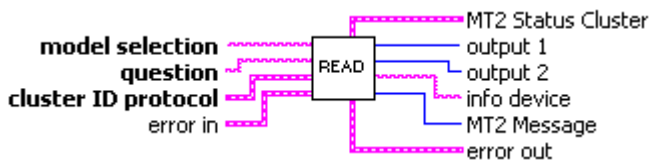
## Read.vi

This VI allows user to send requests to MT2 devices. The **question** parameter contains a list of allowed requests. The MT2 device model can be selected from **model selection** list. The **MT2 Message**, the **MT2 Status cluster**, the **output 1**, the **output 2** and the **info device** are variables containing answers to requests sent about respectively: device status; X,Y axes setting-out (output 1 and output 2) and information about connected device. The **cluster ID protocol** encloses communication protocol description. The **error in** reports any error occurred before the running of **Read VI**. The **error out** reports any errors occurred, included errors from This VI (i.e. illegal question).



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## Connector Pane



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## Controls and Indicators

### **model selection**

The **model selection** contains the list of MT2 models. Each model has its own dialogue standard.

### **question**

The **question** contains allowed request to the device.

### **error in**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in case of errors from other VIs.

#### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

#### **code**

The **code** input identifies the error or warning.

#### **source**

The **source** string describes the origin of the error or warning.

### **cluster ID protocol**

#### **Handle**

The **Handle** contains identification of connection via D2XX library.

#### **VISA resource name**

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

#### **connection ID**

The **connection ID** is a network connection refnum that uniquely identifies the TCP connection you want to close.



### **error out**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

#### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

#### **code**

The **code** input identifies the error or warning.

#### **source**

The **source** string describes the origin of the error or warning.

### **MT2 Status Cluster**

#### **BIT 0**

The **BIT 0** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB means movement along X axis: otherwise, it means a known position has been reached after a home position command.

#### **BIT 1**

The **BIT 1** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB means movement along Y axis: otherwise, it means movement along X or Y axis.

#### **BIT 2**

The **BIT 2** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB means during a negative movements that limit switch has been reached along X axis: otherwise, it means that limit switch has been reached along X axis.

#### **BIT 3**

The **BIT 3** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB means during a positive movements that limit switch has been reached along X axis: otherwise, it means that limit switch has been reached along Y axis.

#### **BIT 4**

The **BIT 4** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB means during a negative movements that limit switch has been reached along Y axis: otherwise, it means that auxiliary output has been set out.

#### **BIT 5**

The **BIT 5** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB means during a positive movements that limit switch has been reached along Y axis: otherwise, it means X axis position is known.

#### **BIT 6**

The **BIT 6** in case of MT2\_ETH, MT2\_MS\_ETH, MT2\_ETH\_WEB and MT2\_MS\_ETH\_WEB relates about auxiliary output: otherwise, it means Y axis position known.

#### **BIT 7**



The **BIT 7** relates about an error.

#### **MT2 Message**

The **MT2 Message** gives information about device status.

#### **output 1**

The **output 1** gives information on X axis **question**.

#### **output 2**

The **output 2** gives information on Y axis **question**.

#### **info device**

The **info device** gives information about MT2 device release.

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#### Error code

Code	Description
260	Unknown request
261	No answer from device

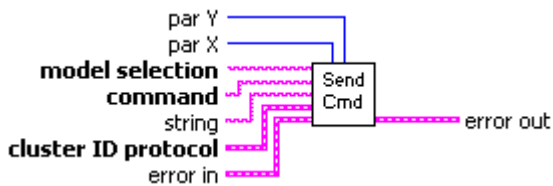
## Send\_Command.vi

This VI allows user to send command to MT2 devices. The **command** variable contains a list of allowed commands to MT2 devices. The **model selection** permits to choose a model from the list of MT2 devices. The **string**, the **par X** and the **par Y** variables allow to set parameters such as: password and TCP address; X,Y axes setting-out. The **cluster ID protocol** contains communication protocol description. The **error in** reports any error occurred before the running of **Send\_Command** VI. The **error out** reports any errors occurred, included error from this VI.



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## Connector Pane



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## Controls and Indicators

### **model selection**

The **model selection** contains the list of MT2 models. Each model has its own dialogue standard.

### **command**

The **command** contains allowed commands to the device.

### **error in**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in the case of errors from other VIs.

### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

### **code**

The **code** input identifies the error or warning.

### **source**

The **source** string describes the origin of the error or warning.

### **par X**

The **par X** receives parameters to be used to command X axis and port number to establish TCP/IP connection.

### **par Y**

The **par Y** receives parameters to be used to command Y axis.





### string

The **string** receives password and address characters to establish TCP/IP connection.



### cluster ID protocol



#### Handle

The **Handle** contains identification of connection via D2XX library.



#### VISA resource name

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.



#### connection ID

The **connection ID** is a network connection reference number to identify uniquely the TCP connection you want to close.



### error out

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.



#### status

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



#### code

The **code** input identifies the error or warning.



#### source

The **source** string describes the origin of the error or warning.

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## Error code

Code	Description
270	Unknown command
271	Invalid parameter
273	Illegal TCP address
274	Illegal port parameter
275	Password illegal number of chars

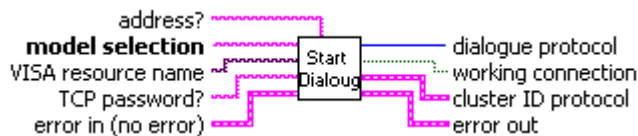


# Start\_dialogue.vi

This VI allows user to start dialogue with the chosen MT2 model from a list in the **model selection**. In case of model selection with TCP/IP protocol dialogue, a password has to be passed through **TCP password?**. The **connect** parameter is a boolean value to start connection procedure: if it works, **working connection** returns true value. The **dialogue protocol** indicates the protocol of dialogue for the selected model. The **cluster ID protocol** encloses communication protocol description. The **error in** reports any error occurred before the running of **Start\_dialogue** VI. The **error out** reports any errors occurred, included errors from this VI.

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## Connector Pane



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## Controls and Indicators

### **error in (no error)**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to select functionalities to be bypassed in the event of errors from other VIs.

### **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

### **code**

The **code** input identifies the error or warning.

### **source**

The **source** string describes the origin of the error or warning.

### **model selection**

The **model selection** contains the list of MT2 models. Each model has its own dialogue standard.

### **TCP password?**

The **TCP password?** requires password to allow connection to MT2 device via ethernet.

### **address?**



The **address?** requires TCP address to allows connection to MT2 device via ethernet.

 **VISA resource name**

**VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

 **error out**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs.

 **status**

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

 **code**

The **code** input identifies the error or warning.

 **source**

The **source** string describes the origin of the error or warning.

 **working connection**

The **working connection** refers about the correct working of connection.

 **dialogue protocol**

The **dialogue protocol** relates about the model standard of communication.

 **cluster ID protocol**

 **Handle**

The **Handle** contains identification of connection via D2XX library.

 **VISA resource name**

The **VISA resource name** specifies the resource to be opened. This control also specifies session and class. It is to be used with the serial protocol.

 **connection ID**

The **connection ID** is a network connection reference number to identify uniquely the TCP connection you want to close.



## Error code

Code	Description
280	Impossible connection to the chosen device

## Using functions

Every VI in *LabVIEW* is constituted by a *Front Panel* and a *Block Diagram*. The *Front Panel* contains all elements linked together as described graphically in the *Block Diagram*. When *LabVIEW* is running, you can open MT2 library functions from the *Block Diagram*: select **Window->Show Functions Palette** (see figure 3).

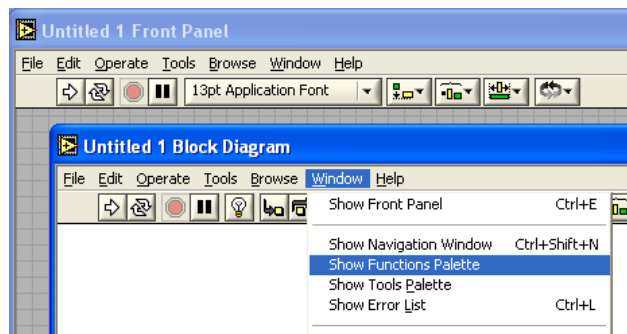


Figure 3: how to run *function palette*.

Click **Select a VI..** button from the *Function Palette* and then insert the path *C:\IPSES\_Lib*.

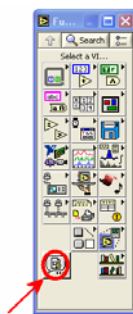


Figure 4: **Select a VI..** button of *Function Palette*.

Next figure 5 shows an example VI to connect MT2 device (from *C:\IPSES\_Lib* run *MT2\_Library\_example.vi*).



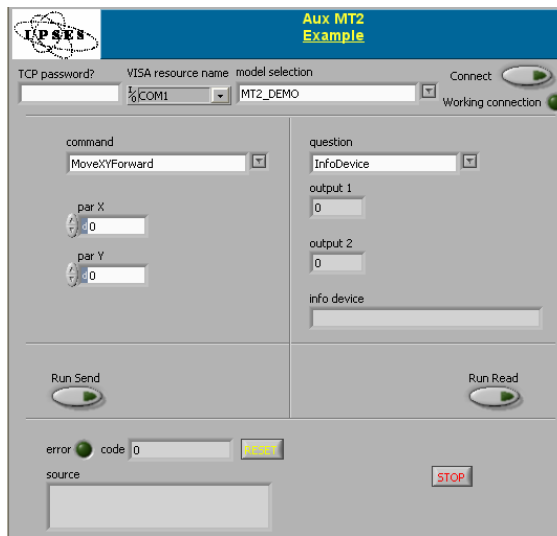


Figura 5: example VI Front Panel.

This example VI has been implemented with the use of the functions included in MT2 library: figure 6 displays its *Block Diagram*.

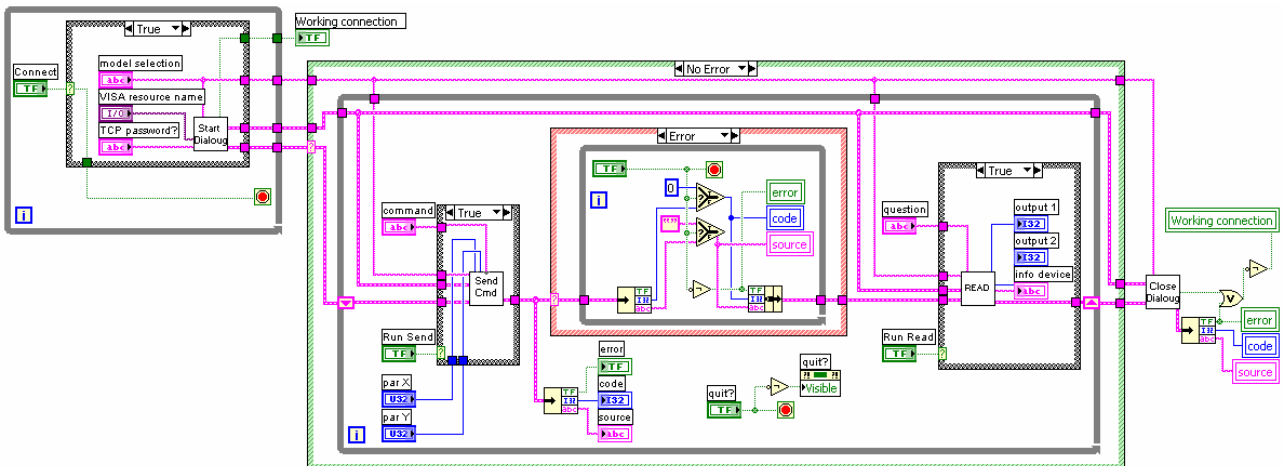


Figure 6: example VI Block Diagram.

