

GpibPrologix Tango Cpp Class

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GpibPrologix Class Identification :

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Class Family : Communication

Platform : All Platforms

Bus : GPIB

Manufacturer : none

Manufacturer :

ref. :

GpibPrologix Class Inheritance :

- [Tango::DeviceImpl](#)
 - GpibPrologix

GpibPrologix Class Description :

communication interface to gpib instruments through Prologix gpib-ethernet controller
Only 1 instrument can be connected to GpibPrologix device

GpibPrologix Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
Url	Name or IP address e.g : gpib1, 172.16.123.123	String	none
Port	The IP port default value : 1234	short	none
ReadTimeout	Read Timeout in milliseconds from 1 to 4000 default value : 100	short	none
ReadTermination	how read is finished : [TIMEOUT EOI TERMINATOR] TIMEOUT : read until timeout EOI : read until instrument marks with EOI the end of message TERMINATOR read until Terminator (the ReadTerminator property) is received Default Value : EOI	String	EOI
ReadTerminator	the Read Terminator it marks the end of the response of the instrument eg LF = 10, CR = 13	short	none
WriteTerminator	terminators to be written at the end of a command see command eos Prologix removes all not escaped LF,CR, and ESC so if LF or CR or CRLF are waited by the instrument at the end of the command specify it here possible values : 0 (CRLF)	short	none

	1 (CR) 2 (LF) 3 (NONE) default value : 2 (LF)		
GpibAddress	The gpib address (from 0 to 30) default : no default -must be set	short	none

GpibPrologix Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
Write	DEV_STRING	DEV_VOID	OPERATOR	None.
Read	DEV_VOID	DEV_STRING	OPERATOR	None.
ReadLongString	DEV_LONG	DEV_STRING	EXPERT	None.
WriteRead	DEV_STRING	DEV_STRING	OPERATOR	None.
SetTimeOut	DEV_SHORT	DEV_VOID	EXPERT	None.
Trigger	DEV_VOID	DEV_VOID	EXPERT	None.
Clear	DEV_VOID	DEV_VOID	OPERATOR	None.
IsSRQLineUP	DEV_VOID	DEV_BOOLEAN	OPERATOR	returns true if SRQ line is UP, false otherwise

Command State :

This command gets the device state (stored in its *device_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Status :

This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

Status Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Write :

Write Definition		
Input Argument	Tango::DEV_STRING	String to send to the device
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• MOVING• FAULT	..

Command Read :

Read Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_STRING	Returned string.
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ReadLongString :

ReadLongString Definition		
Input Argument	Tango::DEV_LONG	Max expected string length.
Output Argument	Tango::DEV_STRING	The readed string.
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• MOVING• FAULT	..

Command WriteRead :

WriteRead Definition		
Input Argument	Tango::DEV_STRING	String to send to the gpib device.
Output Argument	Tango::DEV_STRING	String returned by the gpib Device.
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetTimeOut :

SetTimeOut Definition		
Input Argument	Tango::DEV_SHORT	accepted value are [0-15]
Output Argument	Tango::DEV_VOID	no argout
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• MOVING• FAULT	..

Command Trigger :

Trigger Definition		
Input Argument	Tango::DEV_VOID	no argin
Output Argument	Tango::DEV_VOID	no argout
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• MOVING• FAULT	..

Command Clear :

Clear Definition		
Input Argument	Tango::DEV_VOID	no argin
Output Argument	Tango::DEV_VOID	no argout
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command IsSRQLineUP :

returns true if SRQ line is UP, false otherwise

IsSRQLineUP Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_BOOLEAN	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

There is no attribute defined.

There is no dynamic attribute defined.

There is no state defined