



TANGO
Device
Server

multimeter User's Guide

HP34401A Class

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Implemented in C++ - CVS repository: tango-ds

Introduction:

this device controls the HP34401A multimeter. It is designed to read the output value in relation to the function chosen.

Class Inheritance:

- Tango::Device_4Impl
 - HP34401A

Class Description:

this device controls the HP34401A multimeter. It is designed to read the output value in relation to the function chosen.

Properties:

Device Properties		
Property name	Property type	Description
GpibProxyName	Tango::DEV_STRING	name of the gpib device proxy

Device Properties Default Values:

Property Name	Default Values
GpibProxyName	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	device is well working
FAULT	-memory allocation problem - communication with the gpib device is broken
ALARM	when the multimeter detects an internal error

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
outputValue: according to the HP34401A multimeter function used, this attribute gets the measure.	DEV_DOUBLE	READ	No

Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection. After an Init command executed on a device, it is not necessary for client to re-connect to the device. This command first calls the device *delete_device()* method and then execute its *init_device()* method. For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT
 - Tango::ALARM

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::ON

- Tango::FAULT
- Tango::ALARM

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT
 - Tango::ALARM

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