



TANGO
Device
Server

TANGO Device Server User's Guide

PyDsSerial Class

Revision: - Author: emichelin
Implemented in Python

Introduction:

Class Inheritance:

- PyTango.Device_4Impl
 - PyDsSerial

Properties:

There is no Class properties.
There is no Device Properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
LastResponse: The motor base_rate	DEV_STRING	READ	No
Function: Measurement function	DEV_STRING	READ_WRITE	No
Range: Range Value	DEV_SHORT	READ_WRITE	No
Rate: Speed Value	DEV_STRING	READ_WRITE	No
Trigger: Trigger Type	DEV_SHORT	READ_WRITE	No
PrimaryValue: Primary Value send by the multimeter	DEV_STRING	READ	No
Mode: AUTO or FIXED	DEV_STRING	READ_WRITE	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
Open	DEV_VOID	DEV_STRING
Close	DEV_VOID	DEV_STRING
StatusDevice	DEV_VOID	DEV_STRING
WriteRead	DEV_STRING	DEV_STRING
DeleteDevice	DEV_VOID	DEV_VOID
SetFunction	DEV_STRING	DEV_VOID
SetRange	DEV_SHORT	DEV_VOID
SetRate	DEV_STRING	DEV_VOID
SetTrigger	DEV_SHORT	DEV_VOID
SetMode	DEV_STRING	DEV_VOID
Reset	DEV_VOID	DEV_VOID
Measure	DEV_VOID	DEV_VOID
PrimaryValue	DEV_VOID	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:**

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:**

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:**

4 - Open

- **Description:** Open Command
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_STRING : The Port number
- **Command allowed for:**

5 - Close

- **Description:** Close serial line
- **Argin:**
DEV_VOID :
- **Argout:**

DEV_STRING : The Port number

- **Command allowed for:**

6 - StatusDevice

- **Description:** Gives the Status of the Device Server
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_STRING : Status of the device
- **Command allowed for:**

7 - WriteRead

- **Description:** Write and read commands of the multimeter
- **Argin:**
DEV_STRING : Command to write on the port
- **Argout:**
DEV_STRING : Response of the device
- **Command allowed for:**

8 - DeleteDevice

- **Description:** Delete the Device Server from the Database
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

9 - SetFunction

- **Description:** Write and read commands of the multimeter
- **Argin:**
`DEV_STRING` : Measurement Function
- **Argout:**
`DEV_VOID` :
- **Command allowed for:**

10 - SetRange

- **Description:** Define a Range for a Measure
- **Argin:**
`DEV_SHORT` : Range
- **Argout:**
`DEV_VOID` :
- **Command allowed for:**

11 - SetRate

- **Description:** Define a Rate for a Measure
- **Argin:**
`DEV_STRING` : Rate
- **Argout:**
`DEV_VOID` :
- **Command allowed for:**

12 - SetTrigger

- **Description:** Define a Trigger for a Measure
- **Argin:**
`DEV_SHORT` : Trigger
- **Argout:**
`DEV_VOID` :

- **Command allowed for:**

13 - SetMode

- **Description:** Define a Mode for a Measure
- **Argin:**
DEV_STRING : Mode
- **Argout:**
DEV_VOID :
- **Command allowed for:**

14 - Reset

- **Description:** Restoration of power multimeter
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

15 - Measure

- **Description:** Performs a measure
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

16 - PrimaryValue

- **Description:** Gives the value obtained by the multimeter (Primary Screen)
- **Argin:**
DEV_VOID :

- **Argout:**
DEV_STRING : Value send by the Multimeter
- **Command allowed for:**

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