



TANGO
Device
Server

Class to control Mitutoyo absolute encoders User's Guide

Mitutoyo Class

Revision: Mitutoyo-Release_2_0 - Author: meyer
Implemented in C++ - CVS repository: ESRF

Introduction:

Class to control Mitutoyo absolute encoders

Class Inheritance:

- Tango::Device_4Impl
 - Mitutoyo

Properties:

Device Properties		
Property name	Property type	Description
Serialdevice	Tango::DEV_STRING	Serial line TANGO device used to talk to the DMX8 controler handling 8 encoders
Channel	Tango::DEV_SHORT	Channel number, from 1 to 8, on the DMX-8 controler to which the Mitutoyo encoder is connected.

Device Properties Default Values:

Property Name	Default Values
Serialdevice	No default value
Channel	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	The encoder is ready to be read
FAULT	The encoder can not be read, check status

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Position: Position value read from the encoder	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
Reset	DEV_VOID	DEV_VOID

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

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

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

4 - Reset

- **Description:** Restart the device server as it was just startup
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT

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