



TANGO
Device
Server

HQPS Temperature Measurements User's Guide

HqpsTemperature Class

Revision: HqpsTemperature-Release_1_3 - Author: verdier
Implemented in C++ - CVS repository: ESRF

Introduction:

This class is able to read a taco device for HQPS temperature and to store value in TACO hdb.

Class Inheritance:

- Tango::Device_4Impl
 - HqpsTemperature

Properties:

Device Properties		
Property name	Property type	Description
HdbDevice	Tango::DEV_STRING	The HDB device name used to store data.
HdbFastPeriod	Tango::DEV_LONG	Hdb write period if temperature higher than threshold (in seconds).
HdbPeriod	Tango::DEV_LONG	Default HDB write period in seconds.
HdbThreshold	Tango::DEV_LONG	VWrite value in HDB if more then this property value.
TacoTempDeviceName	Tango::DEV_STRING	TACO device name for HQPS temperature measurements.

Device Properties Default Values:

Property Name	Default Values
HdbDevice	No default value
HdbFastPeriod	60
HdbPeriod	3600
HdbThreshold	60
TacoTempDeviceName	sys/ip-thermo/hqps

There is no Class properties.

Attributes:

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
Temperatures	DEV_DOUBLE	24	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:**

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:**

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