

Sci9700TempCtrl Tango Python Class

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Sci9700TempCtrl Class Identification :

Contact : at mail.desy.de - tneuz
Class Family : Temperature
Platform : Unix Like
Bus : GPIB
Manufacturer : Scientific Instruments
Manufacturer ref. : Temperature Controller

Sci9700TempCtrl Class Inheritance :

- [Tango::DeviceImpl](#)
 - Sci9700TempCtrl

Sci9700TempCtrl Class Description :

Class for the 9700 Temperature Controller from Scientific Instruments

Sci9700TempCtrl Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
GpibAddress	Gpib Adress (ex. 10 or dev10 are valid)	String	none

Sci9700TempCtrl Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its device_state data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its device_status data member) and returns it to the caller.
SetCalData	DEVVAR_DOUBLEARRAY	DEV_VOID	OPERATOR	Set calibration data (T vs V or R) for given curbe and data point.
CtrlWriteRead	DEV_STRING	DEV_STRING	OPERATOR	Write a command to the controller and read the answer.

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	Device state
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..

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	Device status
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetCalData :

Set calibration data (T vs V or R) for given curve and data point.

SetCalData Definition		
Input Argument	Tango::DEVVAR_DOUBLEARRAY	Curve Number, data point, temperature (K), data for sensor (V or R)
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed		

for	All states	..
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Command CtrlWriteRead :

Write a command to the controller and read the answer.

CtrlWriteRead Definition		
Input Argument	Tango::DEV_STRING	Command to send to controller
Output Argument	Tango::DEV_STRING	Ctrl response
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Sci9700TempCtrl Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
TempA	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Temperature channel A
TempB	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Temperature channel B
SetPoint	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Set temperature for main loop
ControlSensor	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Main Control Sensor: 1 -> channel A, 2 -> channel B

There is no dynamic attribute defined.

Attribute TempA :

Temperature channel A

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

Attribute Properties	
label	
unit	K
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

Attribute TempB :

Temperature channel B

Attribute

Attribute

Attribute Event Criteria

Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

Properties	
label	
unit	K
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

Attribute SetPoint :

Set temperature for main loop

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set

Attribute Properties	
label	
unit	K
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set

Read allowed for	All states
Write allowed for	All states

min_warning	
delta_time	
delta_val	

Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

Attribute ControlSensor :

Main Control Sensor: 1 -> channel A, 2 -> channel B

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	2
min_value	1
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

Sci9700TempCtrl Class States	
Name	Description
ON	
FAULT	