

## Keithley6487 Tango Cpp Class

### Contents :

- o [Description](#)
- o [Properties](#)
- o [Commands](#)
  - [State](#)
  - [Status](#)
- o [Attributes](#)
  - [Current](#)
  - [Voltage](#)
  - [SetVoltage](#)
  - [MaxOutputCurrent](#)
  - [VoltageOutputActive](#)
- o [States](#)

### Keithley6487 Class Identification :

Contact : at mail.desy.de - tnunez  
 Class Family : Instrumentation  
 Platform : Unix Like  
 Bus : GPIB  
 Manufacturer : Keithley  
 Manufacturer ref. : 6487

### Keithley6487 Class Inheritance :

- o [Tango::DeviceImpl](#)
  - Keithley6487

### Keithley6487 Class Description :

Class for controlling the Keithley 6487 connecting to a GpibDeviceServer.

### Keithley6487 Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
GpibDevice	Name of the GpibDeviceServer Tango Server to connect to	String	none

Keithley6487 Class Commands				
Name	Input type	Output type	Level	Description
<a href="#">State</a>	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its device_state data member) and returns it to the caller.
<a href="#">Status</a>	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.

### **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	..

Keithley6487 Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">Current</a>	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Read current.
<a href="#">Voltage</a>	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Read voltage.
<a href="#">SetVoltage</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Set Voltage value, read last set value.
<a href="#">MaxOutputCurrent</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Set maximum output current, read last set value.
<a href="#">VoltageOutputActive</a>	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Activate/deactivate Output Voltage.

**There is no dynamic attribute defined.**

**Attribute Current :**

Read current.

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	A
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

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 Voltage :**

Read voltage.

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	V
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 SetVoltage :**

Set Voltage value, read last set value.

Attribute	
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Attribute	
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Attribute Event Criteria	
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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	true
Write hardware at init.	Not set
Read allowed for	All states
Write allowed for	All states

Properties	
label	
unit	V
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 MaxOutputCurrent :**

Set maximum output current, read last set value.

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	true
Write hardware at init.	Not set
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	mA
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 VoltageOutputActive :**

Activate/deactivate Output Voltage.

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

Attribute Properties	
label	
unit	0->deactive, 1->active
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

Keithley6487 Class States	
Name	Description
ON	
FAULT	