

## LoCuM4ENZ Tango Cpp Class

### Contents :

- [Description](#)
- [Properties](#)
- [Commands](#)
  - [State](#)
  - [Status](#)
  - [WriteReadSocket](#)
  - [ResetDevice](#)
- [Attributes](#)
  - [BiasVoltageSource](#)
  - [MeasuringRange](#)
  - [Configuration](#)
- [States](#)

### LoCuM4ENZ Class Identification :

Contact : at mail.desy.de - trunez  
Class Family : Instrumentation  
Platform : All Platforms  
Bus : Socket  
Manufacturer : ENZ  
Manufacturer ref. : LoCuM-4

### LoCuM4ENZ Class Inheritance :

- [Tango::DeviceImpl](#)
  - LoCuM4ENZ

### LoCuM4ENZ Class Description :

Class for controlling the 4-Channels Low Current Monitor from ENZ

### LoCuM4ENZ Properties :

There is no class properties



Device Properties			
Name	Description	Type	Default Value
IpAddr	Ip address for the socket connection	String	none
PortNb	Port number	int	none
SimulationMode	1 if simulation	int	0

LoCuM4ENZ 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.
<a href="#">WriteReadSocket</a>	DEV_STRING	DEV_STRING	OPERATOR	Send a command and read the answer
<a href="#">ResetDevice</a>	DEV_VOID	DEV_VOID	OPERATOR	Resets the device

### 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 WriteReadSocket :**

Send a command and read the answer

WriteReadSocket Definition		
Input Argument	Tango::DEV_STRING	Command
Output Argument	Tango::DEV_STRING	Answer
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

---

### **Command ResetDevice :**

Resets the device

ResetDevice Definition		
Input Argument	Tango::DEV_VOID	

Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

LoCuM4ENZ Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">BiasVoltageSource</a>	false	false	Scalar	READ_WRITE	Tango::DEV_STRING	OPERATOR	BIAS Voltage Source: PLUS, MINUS, EXT or DEF
<a href="#">MeasuringRange</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
<a href="#">Configuration</a>	false	false	Scalar	READ	Tango::DEV_STRING	OPERATOR	

**There is no dynamic attribute defined.**

**Attribute BiasVoltageSource :**

BIAS Voltage Source: PLUS, MINUS, EXT or DEF

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	

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

Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write allowed for	All states

max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 MeasuringRange :**

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	muA
standard unit	
display unit	
format	
max_value	
min_value	0.0001
max_alarm	1000.
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 Configuration :**

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

Attribute Properties	
label	
unit	
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

LoCuM4ENZ Class States	
Name	Description
ON	
FAULT	