

BalzersGauge Tango Cpp Class

Contents :

- [Description](#)
- [Properties](#)
- [Commands](#)
 - [State](#)
 - [Status](#)
 - [On](#)
 - [Off](#)
- [Attributes](#)
 - [Pressure](#)
 - [XLocation](#)
 - [YLocation](#)
- [States](#)

BalzersGauge Class Identification :

Contact : at esrf.fr - peru
Class Family : Vacuum
Platform : Unix Like
Bus : Serial Line
Manufacturer : Balzers
Manufacturer ref. :

BalzersGauge Class Inheritance :

- [Tango::DeviceImpl](#)
 - PressureGauge
 - BalzersGauge

BalzersGauge Class Description :

This device server is intended to drive a vacuum gauge connected to a Balzers TPG300 controller.

BalzersGauge Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
Tpg300DeviceName	The device name of the TPG300 device server.	String	none
GaugeName	This is the gauge name (must be `A1`, `A2`, `B1` or `B2`).	String	none
GazFactor	A factor which is applied to raw pressure got from the controller.	double	2.0
FilterTime	The type of filtering (`fast`, `slow` or `medium`).	String	none
XLocation	The abscisse of the gauge inside the cell.	double	NaN
YLocation	The Y coordinate of the gauge in the cell.	double	NaN

BalzersGauge Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
On	DEV_VOID	DEV_VOID	OPERATOR	Sets the gauge ON.
Off	DEV_VOID	DEV_VOID	OPERATOR	Sets the gauge OFF.

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	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	1000	..
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	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command On :

Sets the gauge ON.

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

Command Off :

Sets the gauge OFF.

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

BalzersGauge Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
Pressure	true	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Measured pressure on device.
XLocation	true	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	
YLocation	true	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	

There is no dynamic attribute defined.

Attribute Pressure :

Measured pressure on device.

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

Attribute Properties	
label	Pressure
unit	mBar
standard unit	
display unit	
format	%.1e
max_value	
min_value	
max_alarm	
min_alarm	

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

Memorized	Not set
Read NOT allowed for	<ul style="list-style-type: none"> • OFF • FAULT • ALARM • DISABLE • UNKNOWN

max_warning	
min_warning	
delta_time	
delta_val	

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	Not set

Attribute XLocation :

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

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

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

allowed for	All states
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delta_val	
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Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

Attribute YLocation :

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	true
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	Not set

BalzersGauge Class States	
Name	Description
ON	This is the normal state when the gauge is ON and runs smoothly.
OFF	This is the state when the gauge is OFF.
FAULT	This is the state when the gauge has a fault.
ALARM	This is the state when there is an alarm for the given gauge.
DISABLE	This is the state when the gauge has been disabled.
UNKNOWN	This is the state when the state can not be determined.