

AxtranGaugeController Tango Python Class

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AxtranGaugeController Class Identification :

Contact : at null - null
 Class Family :
 Platform :
 Bus :
 Manufacturer :
 Manufacturer ref. :

AxtranGaugeController Class Inheritance :

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

AxtranGaugeController Class Description :

This Device will manage the MKS 937A Gauge Controller through a SerialLine Tango Device Server. It will read Pressure for each Channel, Combination Channels, Modules installed, Firmware version and relays state.

Last update: srubio@cells.es, 2007/09/20

AxtranGaugeController Properties :

Class Properties			
Name	Description	Type	Default Value
Refresh	Period (in seconds) for the internal refresh thread.	int	10

Device Properties			
Name	Description	Type	Default Value
SerialLine	SerialLine Device Server to connect with	String	none
NChannels	Number of Pressure Channels available	int	5
NCombChannels	Number of Combination Channels available	int	2

AxtranGaugeController 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.
SendCommand	DEV_STRING	DEV_STRING	OPERATOR	Sends a command directly to the device through the rs232 line

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

Command SendCommand :

Sends a command directly to the device through the rs232 line

SendCommand Definition		
Input Argument	Tango::DEV_STRING	Command to send (literally)
Output Argument	Tango::DEV_STRING	Answer received (literally)
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

AxtranGaugeController Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
Pressure	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	

There is no dynamic attribute defined.

Attribute Pressure :

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	mbar
standard unit	
display unit	
format	scientific;uppercase;setprecision(3)
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

AxtranGaugeController Class States	
Name	Description
ON	Device running normally
OFF	Gauges switched off
UNKNOWN	It was imposible to communicate with the device
ALARM	Error in some channel/module of the device