

## Orbit3Sensor Tango Python Class

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### Orbit3Sensor Class Identification :

Contact : at mail.desy.de - tnunez  
Class Family : MeasureInstruments  
Platform : Unix Like  
Bus : Ethernet  
Manufacturer : Solartron Metrology  
Manufacturer ref. : Orbit3

### Orbit3Sensor Class Inheritance :

- [Tango::DeviceImpl](#)
  - Orbit3Sensor

### Orbit3Sensor Class Description :

Control/Readout of a sensor of an Orbit3 Measurement System

### Orbit3Sensor Properties :

There is no class properties

**Device Properties**

Name	Description	Type	Default Value
CtrlDevice	Name of the device of the Orbit3SensorCtrl class making the connexion to the controller.	String	none
SensorID	SensorID from the sensor to be connected to this device.	String	none
SensorAddress	Address to set to the senser with the SensorID set in the property. Integer value (0, 1, 2, ...).	int	none

Orbit3Sensor 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	..

Orbit3Sensor Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">Value</a>	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Readout value
<a href="#">Resolution</a>	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Set resolution, possible values 14, 16, 18
<a href="#">ResolutionFactor</a>	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	Factor depending on the resolution. Used to compute units from counts

**There is no dynamic attribute defined.**

**Attribute Value :**

Readout value

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	mm
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 Resolution :**

Set resolution, possible values 14, 16, 18

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

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	18
min_value	14

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

Polling Period Memorized	Not polled true
Write hardware at init.	Not set
Read allowed for	All states
Write allowed for	All states

max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 ResolutionFactor :**

Factor depending on the resolution. Used to compute units from counts

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_LONG
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

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<b>Orbit3Sensor Class States</b>	
<b>Name</b>	<b>Description</b>
ON	
FAULT	