

# NewportOmega Tango Python Class

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## NewportOmega Class Identification :    NewportOmega Class Inheritance :

- |                   |                         |                                     |
|-------------------|-------------------------|-------------------------------------|
| Contact           | : at cells.es - sblanch | ◦ <a href="#">Tango::DeviceImpl</a> |
| Class Family      | : Instrumentation       | ▪ NewportOmega                      |
| Platform          | : Unix Like             |                                     |
| Bus               | : Serial Line           |                                     |
| Manufacturer      | : Newport               |                                     |
| Manufacturer ref. | : Omega                 |                                     |

## NewportOmega Class Description :

Device server to show the Omega Strain gage from Newport, in a tango system.

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## NewportOmega Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
Serial	Device name for serial line, or a local tty file path	String	none
Address	Some of this instruments can be connected in a shared bus like 485, having each an identifier.	String	none
Measures	List of elements to read from the instrument: UnfilteredValue, FilteredValue, PeakValue, ValleyValue.	String[]	none
Units	Unit to be used in the dynamic attributes	String	none

NewportOmega 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="#">Exec</a>	DEV_STRING	DEV_STRING	EXPERT	Expert attribute to execute python code inside the device. Use it extremely carefully.
<a href="#">Open</a>	DEV_VOID	DEV_VOID	OPERATOR	Open the communications with the lower level serial line.
<a href="#">Close</a>	DEV_VOID	DEV_VOID	OPERATOR	Close the communications with the lower level serial line.

## **Command State :**

This command gets the device state (stored in its device\_state data member) and returns it to the caller.

<b>State Definition</b>		
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	..

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## **Command Status :**

This command gets the device status (stored in its device\_status data member) and returns it to the caller.

<b>Status Definition</b>		
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	..
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### **Command Exec :**

Expert attribute to execute python code inside the device. Use it extremely carefully.

<b>Exec Definition</b>		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_STRING	
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

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### **Command Open :**

Open the communications with the lower level serial line.

<b>Open Definition</b>		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..

Command NOT allowed for	<ul style="list-style-type: none"> <li>• INIT</li> <li>• ON</li> <li>• FAULT</li> </ul>	..

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**Command Close :**

Close the communications with the lower level serial line.

Close Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> <li>• INIT</li> <li>• OFF</li> <li>• FAULT</li> </ul>	..

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**There is no attribute defined.**

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**There is no dynamic attribute defined.**

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<b>NewportOmega Class States</b>	
<b>Name</b>	<b>Description</b>
INIT	Starting the device agent.
ON	Well made connetion to the instrument.
OFF	Not build connection to the instrument.
ALARM	Something is not working properly.
FAULT	There is something that cannot be recovered.