ElcomatHR Tango Cpp Class

Contents :

- Description
- Properties
- Commands
  - State
  - Status
  - WriteSocket
  - WriteReadSocket
  - CloseSocket
- Attributes
  - AbsAngleX
  - AbsAngleY
  - RelAngleX
  - RelAngleY
  - StatusRelMeas
  - StatusAbsMeas
- States

ElcomatHR Class Identification :

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Class Family	: Instrumentation
Platform	: All Platforms
Bus	: Socket
Manufacturer	: Moeller-Wedel Optical
Manufacturer ref.	: Elcomat HR

ElcomatHR Class Inheritance :

- Tango::DeviceImpl
  - ElcomatHR

ElcomatHR Class Description :

Server for connecting to the Elcomat HR autocollimator and reading the values.

ElcomatHR Properties :

There is no class properties

Device Properties			
Name	**Description**	**Type**	**Default Value**
PortNb	RS232 Port Number	int	10010
IpAddr	Ip address of the terminal server	String	none
SimulationMode	0 -> real mode, 1 -> simulation mode	int	0

ElcomatHR Class Commands				
Name	**Input type**	**Output type**	**Level**	**Description**
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
Status	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.
WriteSocket	DEV_STRING	DEV_VOID	OPERATOR	Sends a command to the Socket
WriteReadSocket	DEV_STRING	DEV_STRING	OPERATOR	Writes a command to the socket and gets the answer.
CloseSocket	DEV_VOID	DEV_VOID	OPERATOR	Close socket connection.

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

Command WriteSocket :

Sends a command to the Socket

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

Command WriteReadSocket :

Writes a command to the socket and gets 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 CloseSocket :

Close socket connection.

CloseSocket 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	..

ElcomatHR Class Attributes							
Name	**Inherited**	**Abstract**	**Attr. type**	**R/W type**	**Data type**	**Level**	**Description**
AbsAngleX	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Absolute angle X
AbsAngleY	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Absolute angle Y
RelAngleX	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Absolute angle X
RelAngleY	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	Absolute angle X
StatusRelMeas	false	false	Scalar	READ	Tango::DEV_STRING	OPERATOR	Status relative measurement.
StatusAbsMeas	false	false	Scalar	READ	Tango::DEV_STRING	OPERATOR	Status absolute measurement.

There is no dynamic attribute defined.

Attribute AbsAngleX :

Absolute angle X

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	
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

Attribute AbsAngleY :

Absolute angle Y

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

Attribute Properties	
label	
unit	
standard unit	
display unit	

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

Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

format
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	Not set

Attribute RelAngleX :

Absolute angle X

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
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
Push Change event by user	false

delta_val

code
Push Archive event by user code	false
Push DataReady event by user code	Not set

Attribute RelAngleY :

Absolute angle X

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
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

Attribute StatusRelMeas :

Status relative measurement.

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	Not set

Attribute StatusAbsMeas :

Status absolute measurement.

Attribute Definition	
Attribute	

Attribute Properties	
label	

Attribute Event Criteria	
Periodic	Not set

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

unit
standard unit
display unit
format
max_value
min_value
max_alarm
min_alarm
max_warning
min_warning
delta_time
delta_val

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

ElcomatHR Class States	
Name	**Description**
ON	Connection open.
FAULT	Problems in connection.