

AcromagXT1121 Tango Python Class

Contents :

- [Description](#)
- [Properties](#)
- [Commands](#)
 - [State](#)
 - [Status](#)
- [Attributes](#)
 - [Register0](#)
 - [Register1](#)
 - [Register2](#)
 - [Register3](#)
 - [Position](#)
 - [BitsDelay](#)
 - [UnitLimitMax](#)
 - [UnitLimitMin](#)
- [States](#)

AcromagXT1121 Class Identification :

Contact : at mail.desy.de - trunez
Class Family : InputOutput
Platform : Unix Like
Bus : Modbus
Manufacturer : Acromag
Manufacturer ref. : XT1121-00

AcromagXT1121 Class Inheritance :

- [Tango::DeviceImpl](#)
 - AcromagXT1121

AcromagXT1121 Class Description :

Setting the Acromag XT1121 digital IO

AcromagXT1121 Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
ModbusIPAddress	IP address of the Modbus device	String	none
PortNb	Port number	int	none

AcromagXT1121 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.

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	..

AcromagXT1121 Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
Register0	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Mask (in decimal) of the register (1 -> output is ON). Each register represent 4 channel (4 bits)
Register1	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Mask (in decimal) of the register (1 -> output is ON). Each register represent 4

							channel (4 bits)
Register2	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Mask (in decimal) of the register (1 -> output is ON). Each register represent 4 channel (4 bits)
Register3	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Mask (in decimal) of the register (1 -> output is ON). Each register represent 4 channel (4 bits)
Position	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Mask (in decimal) of the 4 registers (1 -> output is ON). Each register has 4 channels (4x4 bits)
BitsDelay	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Time delay between changes in the bits state.
UnitLimitMax	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
UnitLimitMin	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	

There is no dynamic attribute defined.

Attribute Register0 :

Mask (in decimal) of the register (1 -> output is ON).

Each register represent 4 channel (4 bits)

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • FAULT • MOVING

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	15
min_value	0
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 Register1 :

Mask (in decimal) of the register (1 -> output is ON).
Each register represent 4 channel (4 bits)

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

Attribute Properties	
label	
unit	
standard unit	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
	Not

Display Level Inherited	OPERATOR false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • FAULT • MOVING

display unit	
format	
max_value	15
min_value	0
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Absolute Change	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 Register2 :

Mask (in decimal) of the register (1 -> output is ON).
Each register represent 4 channel (4 bits)

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • FAULT • MOVING

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	15
min_value	0
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 Register3 :

Mask (in decimal) of the register (1 -> output is ON).
Each register represent 4 channel (4 bits)

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • FAULT • MOVING

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	15
min_value	0
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 Position :

Mask (in decimal) of the 4 registers (1 -> output is ON).
 Each register has 4 channels (4x4 bits)

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • FAULT • MOVING

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	65535
min_value	0
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 BitsDelay :

Time delay between changes in the bits state.

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

Attribute Properties	
label	
unit	s
standard unit	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
	Not

Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Absolute Change	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 UnitLimitMax :

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
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

Write allowed for	All states
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Push DataReady event by user code	false
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Attribute UnitLimitMin :

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write 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

AcromagXT1121 Class States	
Name	Description

ON	
FAULT	
MOVING	The bits are changing with a time delay.