

NMR20 Tango Cpp Class

Contents :

- [Description](#)
- [Properties](#)
- [Commands](#)
 - [State](#)
 - [Status](#)
- [Attributes](#)
 - [magneticField](#)
- [States](#)

NMR20 Class Identification :

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

NMR20 Class Inheritance :

- [Tango::DeviceImpl](#)
 - NMR20

NMR20 Class Description :

this devices controls the NMR20 gaussmeter which measures a magnetic field

NMR20 Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
SocketProxyName	the NMR20 device communicates with the device server ClientDataSocket which is the interface between Tango and the gaussmeter	String	instrum_lambda/ethernet/1

NMR20 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.

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	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

NMR20 Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
magneticField	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	gets the value of the magnetic field coming from the \ngaussmeter

There is no dynamic attribute defined.

Attribute magneticField :

gets the value of the magnetic field coming from the \ngaussmeter

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	1000
Memorized	Not set
Read allowed for	All states

Attribute Properties	
label	MAGNETIC FIELD
unit	T
standard unit	T
display unit	T
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

NMR20 Class States

Name	Description
------	-------------

RUNNING	when the device is in locked mode
ALARM	when the device is in watching mode
FAULT	problem on the socket or memory allocation problem