



TANGO
Device
Server

NMR20 GAUSSMETER

User's Guide

NMR20 Class

Revision: release_1_0_6 - Author: vince_soleil
Implemented in C++ - CVS repository: tango-ds

Introduction:

this devices controls the NMR20 gaussmeter which measures a magnetic field

Class Inheritance:

- Tango::Device_4Impl
 - NMR20

Class Description:

this devices controls the NMR20 gaussmeter which measures a magnetic field

Properties:

Device Properties		
Property name	Property type	Description
SocketProxyName	Tango::DEV_STRING	the NMR20 device communicates with the device server ClientDataSocket which is the interface between Tango and the gaussmeter

Device Properties Default Values:

Property Name	Default Values
SocketProxyName	instrum_lambda/ethernet/1

There is no Class properties.

States:

States	
Names	Descriptions
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

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
magneticField: gets the value of the magnetic field coming from the gaussmeter	DEV_DOUBLE	READ	No

Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection. After an Init command executed on a device, it is not necessary for client to re-connect to the device. This command first calls the device *delete_device()* method and then execute its *init_device()* method. For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::RUNNING
 - Tango::ALARM
 - Tango::FAULT

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::RUNNING

- Tango::ALARM
- Tango::FAULT

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**
 - Tango::RUNNING
 - Tango::ALARM
 - Tango::FAULT

TANGO is an open source project hosted by : 	Core and Tools : CVS repository on tango-cs project Device Servers : CVS repository on tango-ds project
---	--