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NEMTEK COMMUNICATIONS TASK

GUIDE

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DESCRIPTION OF THE NEMTEK COMMUNICATIONS TASK

The Nemtek communications task provides a high level interface between the Integriti controller and the Nemtek Electric Fence Energizers, I/O Cards and Terminal.

Automation points are used as part of the Nemtek Electric fence integration to map Integriti entities to NEMTEK entities (e.g. Nemtek Energizers).

The NEMTEK communications task scans over the Integriti entities used within the Automation Points for changes and sends data to NEMTEK Electric Fence Energizers .

The NEMTEK communications task also processes incoming messages from NEMTEK and can update the Integriti entities.

The NEMTEK communications task
- Requires a High Security Fence IP HLI license (IR-996025)
- One IR-996025 interface is required for each Nemtek Druid or I/O module being integrated.
- Requires a SMART card to be fitted to the IAC/ISC

Configuring the communications task

To create the Automation communications task, follow the procedure below

1. Click on the 

tab followed by 

.
2. Click 

o create a new communications task.
3. In the window that appears, enter a name for the communications task and enter any necessary notes in the notes field.
4. Under Comms Task Setup drop down the type list box and select NEMTEK.
5. Optionally, set an input that will be used to reflect the status of the communications task.



Inputs C01:Z33-Z99 are ideal for this particular application.
This input will go in to alarm if the communications task fails.

For TCP connections to NEMTEK Automation system
6. Expand out Configuration Tab.
7. Enter the IP address of the NEMTEK Electric Fence Terminal in the IP Address field.



The NEMTEK Communications task can only be configured for a static address.

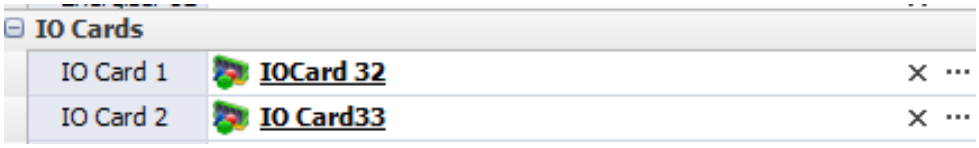
8. Enter the port in the TCP Port field.
9. Expand Out the Energizers Tab.

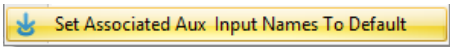
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10. Map each Electric Fence Energizer to a Virtual module.



11. Expand Out the IO Cards Tab.
12. Map Each IO Card in the system to a Virtual Module.



13. Save and close the editor window for the Communications Task.
14. Next Right click on the Nemtek Comms Task and select 

This will automatically set the names of all Inputs and Auxiliaries on the configured virtual modules. Configuring automation pints is not required.

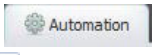
Creating Analog Calibrations for Nemtek Inputs/Outputs

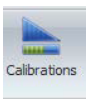
Analog Calibrations are used to map NEMTEK Electric Fence Energizers High Voltage and Supply Voltage to Integriti entities.

You will need to create Analog Calibrations for NEMTEK High Voltage and Supply Voltage Auxiliary Entities you want to control or monitor.

To create an Automation Point, follow the procedures below.

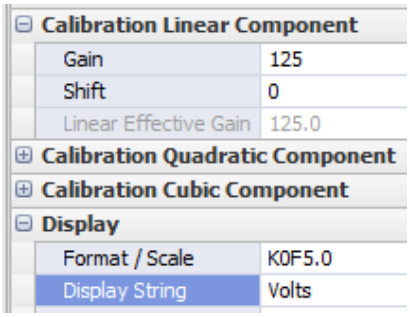
Creating Analog Calibrations for Nemtek High Voltage Output

1. Click on the 

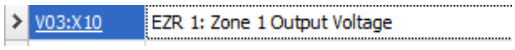
tab followed by 

.
2. Click 

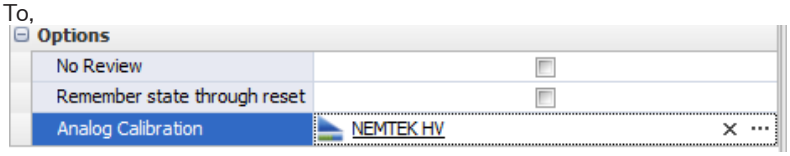
to create a new communications task.
3. In the window that appears, enter a name for the communications task and enter any necessary notes in the notes field. e.g NEMTEK HV.
4. Under Calibration Linear Component, Gain = 125, Shift = 0
5. Expand the Display Tab
6. Set Format/Scale to “K0F5.0”
7. Set Display String to “Volts”.
8. Save and close the editor window for the Analog Calibration.
9. Navigate to the Auxiliaries of Energizer 1



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10. Set the Analog Calibration of 

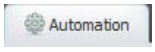
To,

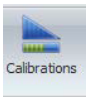


11. Repeat Steps 9 & 10 for each energizer.

The Zone Output High Voltage Aux value is Bi- directional and can be set using the Integriti software or via the Nemtek Electric Fence Terminal.

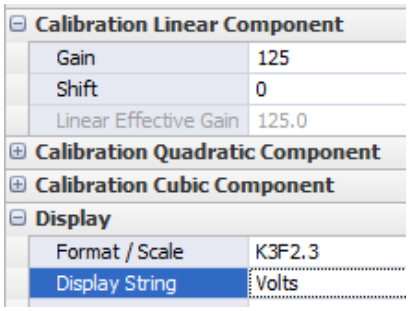
Creating Analog Calibrations for Nemtek Supply Voltage Output

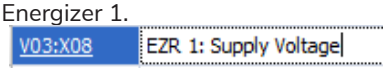
1. Click on the 

tab followed by 

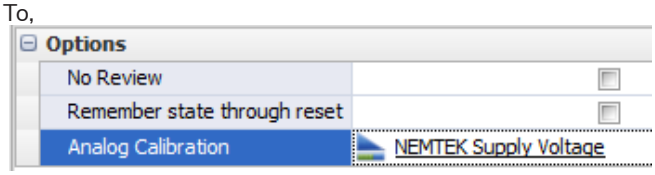
.
2. Click 

to create a new communications task.
3. In the window that appears, enter a name for the communications task and enter any necessary notes in the notes field. e.g NEMTEK HV.
4. Under Calibration Linear Component, Gain = 125, Shift = 0
5. Expand the Display Tab
6. Set Format/Scale to “K3F2.3”
7. Set Display String to “Volts”.
8. Save and close the editor window for the Analog Calibration.
9. Navigate to the Auxiliaries of Energizer 1.



10. Set the Analog Calibration of 

To,



11. Repeat Steps 9 & 10 for each energizer.

The Analog Aux Supply Voltage value is set by the Nemtek Electric Fence Terminal and is only monitored by the Integriti system.

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