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CONPROSYS™ Industrial IoT
Test report for NH-FV Series

20 February 2018
CONTEC Co., Ltd.

1

Device list for Test

Item Name	Model	Manufacturer
Signal Tower NH-FV Series	NHP-FV1	PATLITE
M2M Controller	CPS-MC341-ADSC1-111	CONTEC
Laptop PC	※1	
LAN cables	We used two commercially available products. ※2	

※1 : We used a PC running Microsoft Internet Explorer 11.x or later.
※2 : The M2M controller body has two LAN ports. They are set in the HUB mode.
Thus when connecting a Signal Tower NH-FV Series and a Laptop PC, it is not necessary to connect the HUB.

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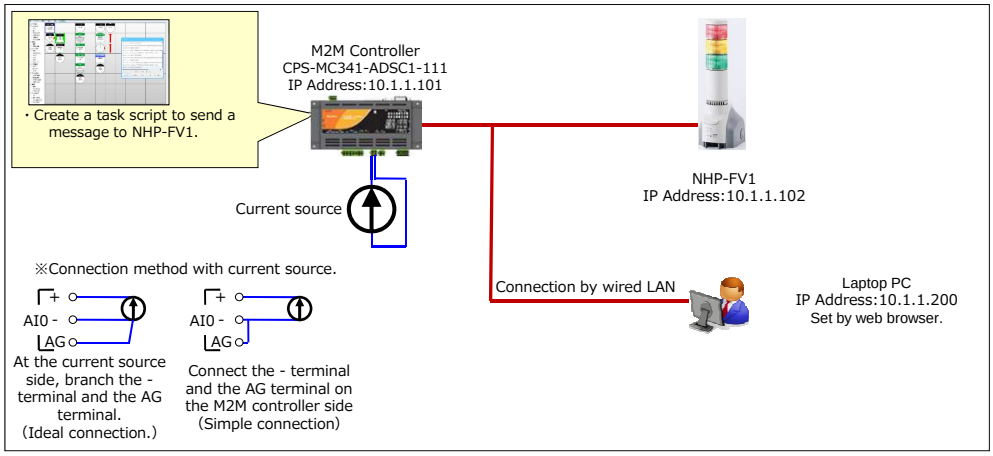
Connection state

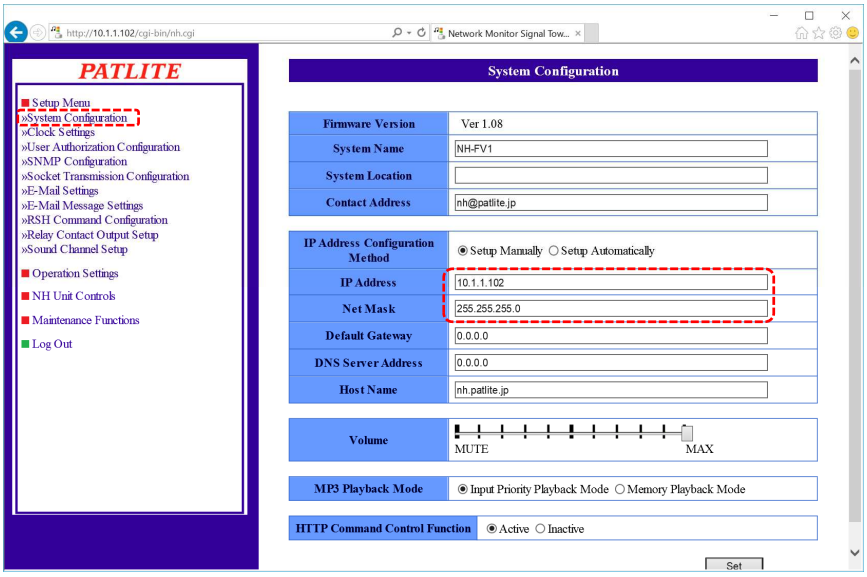
Overview

NHP-FV1, M2M Controller, PC connected via wired LAN.
Measure the current of the current source connected to AI0 of the M2M controller and lighting and light out the red, amber, green of NHP-FV1 according to the measurement value.



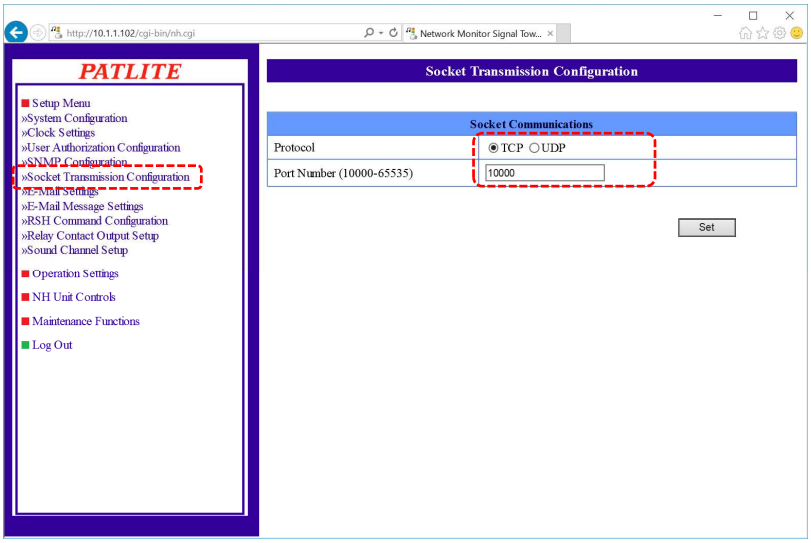
NHP-FV1 setting state

Check IP Address setting and Net Mask setting.



NHP-FV1 setting state

Check the "Socket communication" protocol and port number setting status.

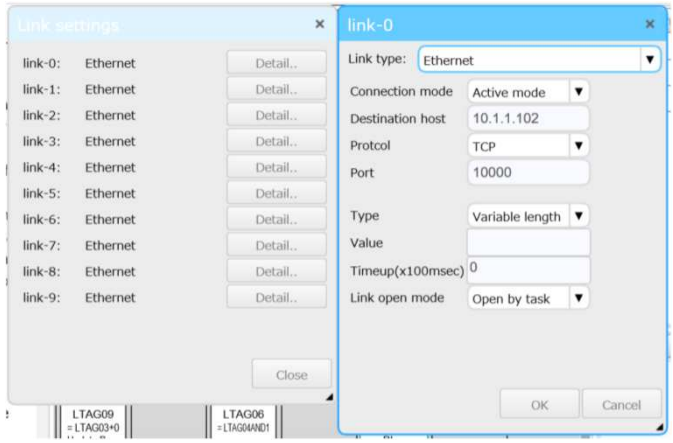


How to restore Task on M2MController (CONPROSYS)

1. Open M2M Controller with Web Browser on Laptop PC.
2. Login to M2M Controller setting menu.
3. Select［File]-[Open from local disk…］on the Task edit.
4. Select "task0_xxxxxxxxxxx.dat" file from the folder where you extracted the downloaded file, and click [Open].
5. Select [File]-[Save task…］ on the Task edit. And save it as an arbitrary file name Task0 - 9.
6. Select［File]-[Open from local disk…］on the Task edit.
7. Select "task1_xxxxxxxxxxx.dat" file from the folder where you extracted the downloaded file, and click [Open].
8. Select [File]-[Save task…］ on the Task edit. Any file name other than those specified in “5”: Save as Task0 - 9.

How to restore Task on M2MController (CONPROSYS)

Select [Options] - [Link settings ...] on the Task edit.
And click [Detail ...] in [link - 1] on the Link settings screen to set it as shown below.



The meaning of TAG

TAG	The meaning of TAG	
TAG10	Red lighting state.	1:Lighting, 0:Lights Out
TAG11	Amber lighting sate.	1:Lighting, 0:Lights Out
TAG12	Green lighting state.	1:Lighting, 0:Lights Out
STAG00	Stores the PNS command to be sent to NHP-FV1.	
TAG00	Data of AI0	Current 0 to 20 mA input to AI0 is stored as 0 to 4095 data.

If the value of TAG 00 is 4 or less, all the lights of NHP-FV1 go out.
When the value of TAG 00 is 2729 or less (about 13 mA or less), green is lighting.
When the value of TAG 00 is 3412 or less (about 16.7 mA or less), amber and green are lighting.
When the value of TAG 00 exceeds 3412, red, amber, green are lighting.
And the sound of "abnormality has occurred" is played three times from NHP-FV1 main unit.