



Ref: FAQ0136

Version: 1.0

Title –Configure Controllercom for DNP3

Made By: AB 15/09/15

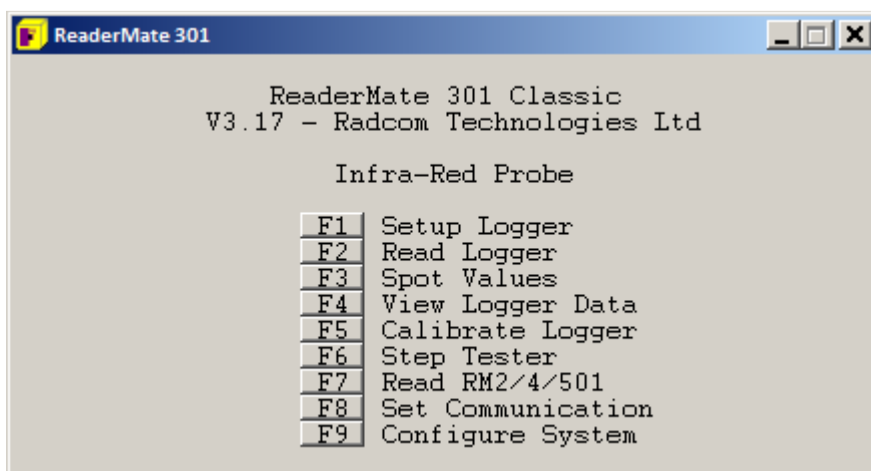
(Issue 2)

How to configure Controllercom loggers for DNP3

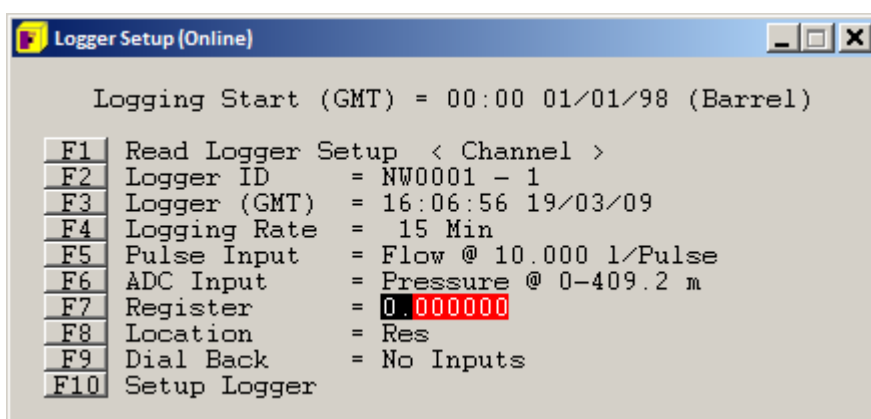
Since ControllerCom F/W V1.14, it has been possible to use the ControllerCom and Controller combination with the DNP3 protocol.

ControllerCom Configuration

The ControllerCom can recognise incoming DNP3 calls and can be configured to optionally contact a DNP3 Server when an alarm occurs. To configure the ControllerCom for these facilities, you will need RM301 V3.17 or greater.



After selecting the appropriate communication port for IR communication, press F1 to see the current Setup for the controller.



Select “F9 – Dial Back” to view the telemetry related setup.



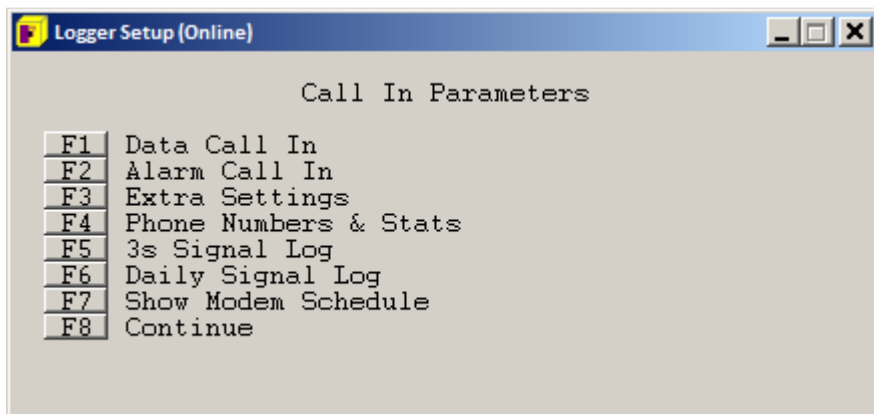
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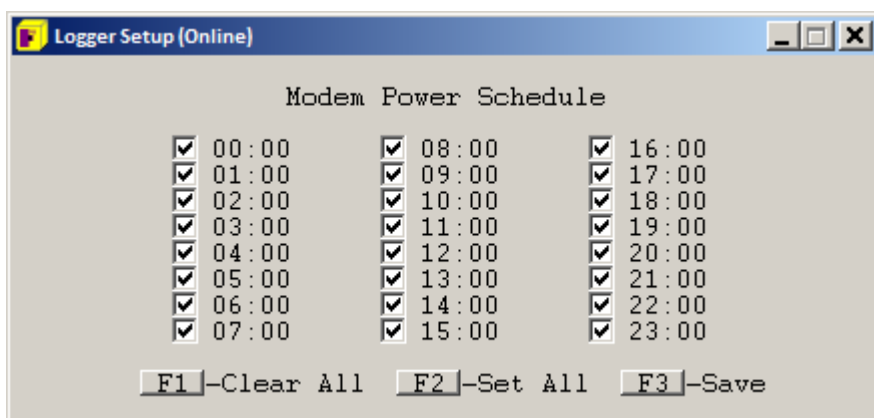
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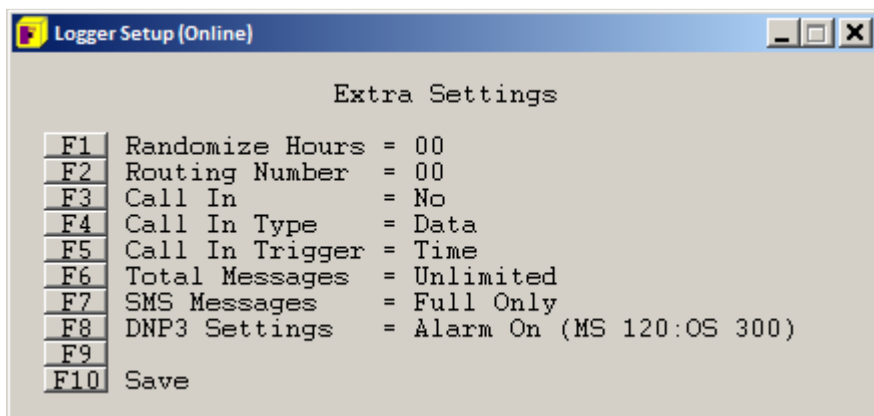


In order for the ControllerCom to be available for calls from the DNP3 Server, it is necessary to set up an appropriate Modem Schedule using “F7 – Show Modem Schedule”



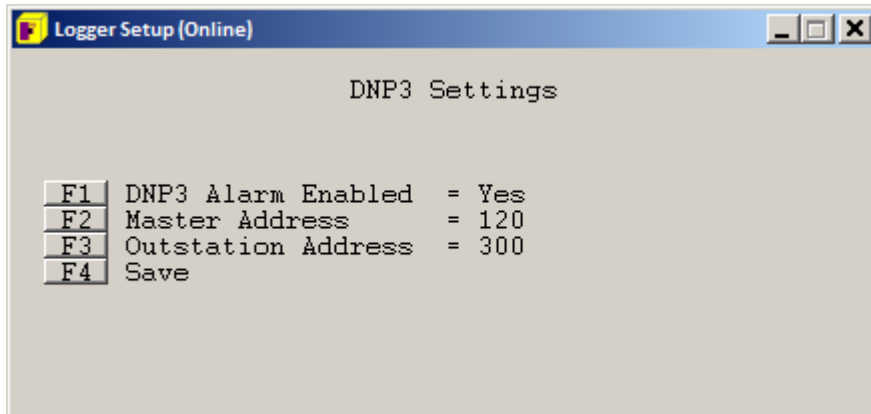
Select the hours that you wish the ControllerCom to be available to the DNP3 Server and press “F3 – Save”. Please note that you must have an add-on power supply to support this feature, either mains or battery box.

Select “F3 – Extra Setting”.

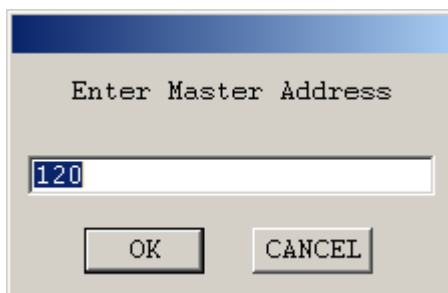




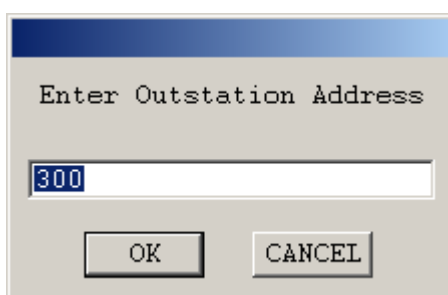
Select “F8 – DNP3 Settings” to set the DNP3 settings.



Use “F1 – DNP3 Alarm Enabled” to have ControllerCom contact a DNP3 Server on the phone number and conditions specified using “F2 – Alarm Call In” from the “Call In Parameters” screen above. For suggested alarm settings see the end of this document.



Select “F2 – Master Address” to be able to change the DNP3 Master Address for the ControllerCom.



Select “F3 – Outstation Address” to be able to change the DNP3 Outstation Address for the Controller.

When the settings are made, select “F4 – Save”.



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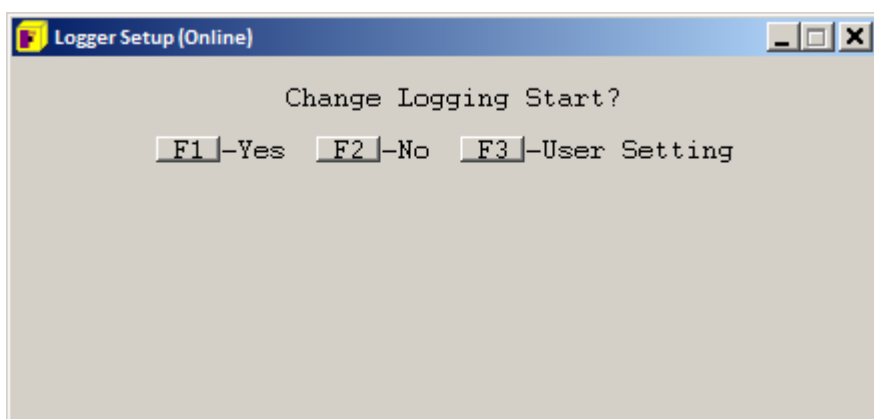
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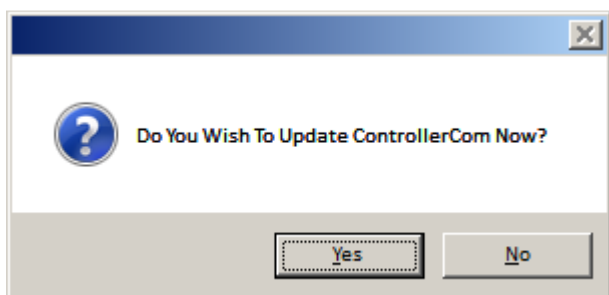
(Issue 2)

The ControllerCom will initialise the DNP3 download pointer when it detects a change in the “Logging Start” of the Controller.

When you use “F10 – Setup Logger”, to send the new settings to the Controller, select “F1 – Yes” for “Change Logging Start?”



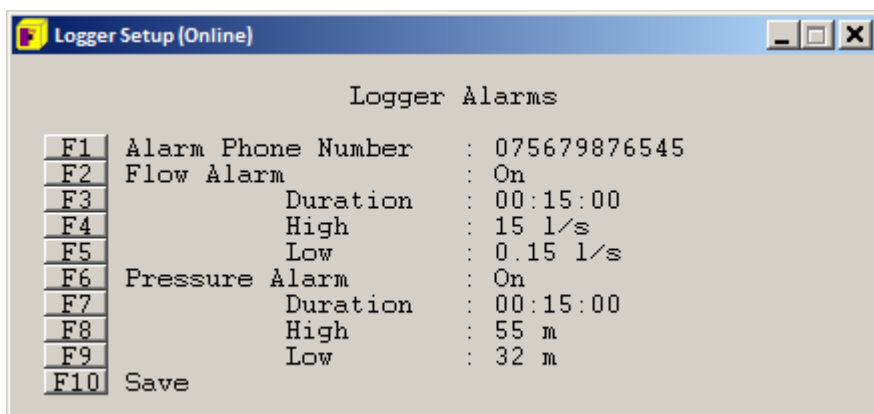
Once the new configuration has been sent to the Controller, you will be prompted as follows:



Select “Yes” and the ControllerCom will read the new Setup from the Controller.

Suggested Alarm Level Settings For A Pressure Controller

The first channel pair of the Controller has Flow and Downstream Pressure:





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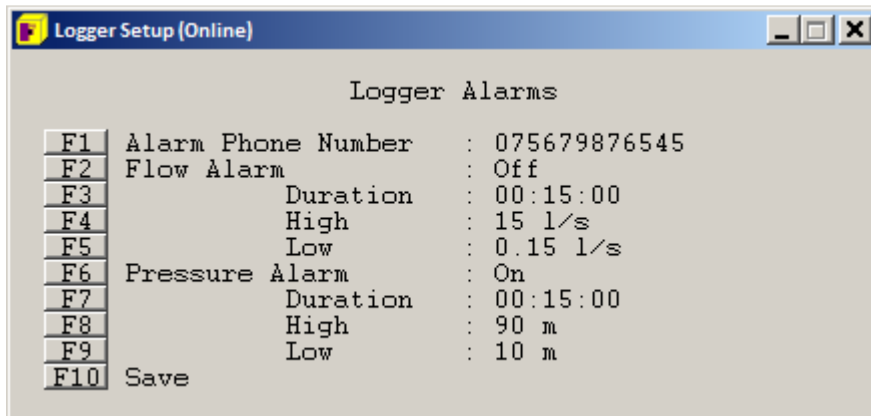
Low Flow Alarm set at 0.5m³/hr

High Flow Alarm set at 10% higher than current max flow in control table

Downstream Low Pressure alarm set at 3m below actuator low setting

Downstream High Pressure alarm set at 3m above actuator high setting

The second channel pair of the Controller has Upstream Pressure:



Upstream Low Pressure alarm set at 10m

Upstream High Pressure alarm set at 90m

Remember to set the Alarm Phone Number to the DNP3 Server's modem.

Document History:

Edition	Date of Issue	Modification	Notes
1st	02/05/12	Release	
2nd	15/09/15	Format update	