

Partner: tekmar  
 Model: tekmarNet4  
 Device Type: HVAC



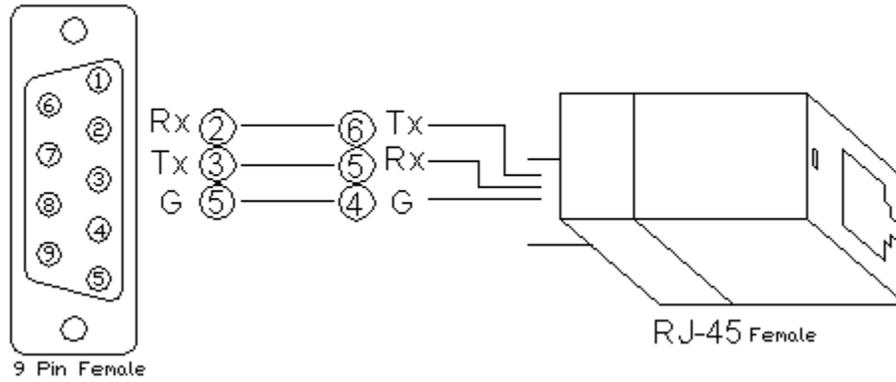
**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	tekmar tekmarNet4 Thermostat v1.2
<b>CATEGORY:</b>	HVAC
<b>VERSION:</b>	1.2
<b>SUMMARY:</b>	This module controls a single tekmar tekmarNet4 thermostat.
<b>GENERAL NOTES:</b>	<p>This module will control a single tekmar tekmarNet4 thermostat. It provides control and true feedback.</p> <p>In order for the Crestron modules to function correctly, each of the To_Module_* outputs of the tekmar tekmarNet4 Feedback Processor v1.2 must be connected to only one tekmar tekmarNet4 Thermostat module. You also MUST pulse the Initialize input on the tekmar tekmarNet4 Feedback Processor v1.2 module after the processor has completely booted up. This will cause the tekmar tekmarNet4 Feedback v1.2 module to request the address from each tekmar tekmarNet4 Thermostat v1.2 module that is connected. If the Initialize input is not pulsed or if it is pulsed too early, the feedback may not work.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	C2I-COM*, ST-COM, C2COM-2/3
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	N/A
<b>CABLE DIAGRAM:</b>	Custom

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Rear View of Connector



### CONTROL:

<Heat/Cool/Slab>_Set_Point_<Up/Down>	D	Press and hold to adjust the heat, cool and slab set points.
<Heat/Cool/Slab>_Set_Point_Temperature _Value_In	A	Analog input to allow preset set point values to be sent to the tekmar. This is to be driven using an Analog Initialize symbol. Valid values are in the range of values entered in the Maximum and Minimum set point parameter fields.
Fan_Speed_<Up/Down>	D	Pulse to adjust the fan speed. A fan speed of 0% is fan auto.
Mode_<Off/Auto/Heat/Cool/Vent>	D	Pulse to select the desired mode.
Initialize	D	Pulse to get the initial status of the thermostat.
From_Processor	S	Serial signal to be routed from one of the To_Module_<1-24> outputs on the tekmar tekmarNet4 Feedback Processor v1.2 module.

### FEEDBACK:

<Heat/Cool/Slab>_Set_Point_Value	A	Analog signals indicating the heat, cool and slab set points. To be displayed using a digital gauge on a touch panel. XXX
Fan_Speed_Value	A	Analog output indicating the current fan speed. To be displayed using a gauge on a touch panel.
Fan_Speed_Is_Auto	D	High to indicate that the fan speed is set to auto. This is the equivalent of fan speed 0%.
Mode_Is_<Off/Heat/Auto/Cool/Vent>	D	High to indicate the currently selected mode.
Current_Room_Temperature_Value	A	Analog output indicating the current outdoor temperature. To be displayed using a digital gauge on a touch panel. XXX.X
Active_Call_Is<None/Heat/Cool>	D	High to indicate the currently active call.

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To_Module_<1-24>	S	Serial signals to be routed to the From_Processor input on one of the tekmar tekmarNet4 Thermostat v1.2 modules.
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**PARAMETERS:**

Device Address	A	Enter the address of the thermostat to be controlled.
Heat Set Point Maximum	A	Enter the maximum allowed heat set point. Range is 41d to 95d. Default is 95d.
Heat Set Point Minimum	A	Enter the minimum allowed heat set point. Range is 40d to 94d. Default is 40d.
Cool Set Point Maximum	A	Enter the maximum allowed cool set point. Range is 51d to 100d. Default is 100d.
Cool Set Point Minimum	A	Enter the minimum allowed cool set point. Range is 50d to 99d. Default is 50d.
Slab Set Point Maximum	A	Enter the maximum allowed slab set point. Range is 41d to 100d. Default is 100d.
Slab Set Point Minimum	A	Enter the minimum allowed slab set point. Range is 40d to 99d. Default is 40d.

**TESTING:**

OPS USED FOR TESTING:	PRO2: 4.003.0015 MC3: 1.002.001
SIMPL WINDOWS USED FOR TESTING:	3.11.06
CRESTRON DB USED FOR TESTING:	30.01.004.00
DEVICE DB USED FOR TESTING:	40.01.004.00
SAMPLE PROGRAM:	tekmar tekmarNet4 Thermostat v1.2 Demo
REVISION HISTORY:	V. 1.0 – Original Release  V. 1.1 – Fixed an issue with the tekmar tekmarNet4 Thermostat module where the reported set point was not always the new set point.  v.1.2 – Added analog inputs to the tekmar tekmarNet4 Thermostat module to allow preset temperature values to be sent using an Analog Initialize Symbol.