Using an EZ-N2 Network interface to talk to SimpleStats
Submitted by: Dave Hill

Purpose: To install E-Z Control SimpleStat(s) on a Johnson Controls N2 communication network.

Material required:

- EZ-N2 Network Interface (our part number FPC-F02-103-103-0150 with daughterboard FPC-C02)
- 24VDC power supply (approx 500milliamps)
- CAT5 crossover cable or two CAT5 patch cables and a network hub/router/switch

Tools required:

- Computer with browser
- EZ-N2 config software (contact tech support for details)

Procedure:

1. Connect 24VDC power and RS485 wiring to the EZ-N2 Interface
2. Connect either the crossover cable or the two patch cables & network "hub" between the computer and the EZ_N2 Interface
3. Using the EZ-N2 config software, download the appropriate config file to the EX-N2 Interface
4. Restart the interface by typing the exclamation point "!"
5. After the interface restarts, assure that the device is communicating to the field devices by selecting "A" and scrolling down to the appropriate node address

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Example notes for 80 stat project:

Server is N2 protocol, Client is Modbus/485.

NOTE: The 24VDC power (10-30 VDC acceptable) is on the "long" green connector next to the RS485 network terminals. Be careful NOT to connect DC power to the small terminal strip next to the Ethernet (CAT5) connector on the daughter-board! That small connector is the N2 network connection.

The SimpleStat internal registers are addressed as follows:

Description	Internal Modbus Address	N2 Address
Temp_Chip	40101	ADF1
ClgVlv	40102	ADF2
H_C_Mode	40106	ADF3
Output_State	40108	ADF4
Cool_PTerm	40114	ADF5
Cool_ITerm	40115	ADF6
CoolDB	40119	ADF7
HeatDB	40120	ADF8
NightHtg	40123	ADF9
NightClg	40124	ADF10
SetpntMax	40131	ADF11
SetpntMin	40132	ADF12
KeyPadLock	40133	ADF13

coolsetpoint	40135	ADF14
Ext_0	40180	ADF15
Ext_1	40181	ADF16
Info_Byte	40184	ADF17
ORT	40212	ADF18

(Use the "prn" file attached to import these points into the FX40)

SimpleStat addresses range from 1 to 80. Corresponding N2 Node address is 100 plus the stat address; For example, SimpleStat #45 will be N2 Node 145.

It takes about 3 minutes to cycle through all 80 devices, so do not look for an instant update.

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The following is a sample "prn" file for the EZ-Stat (SimpleStat). Copy and paste to a new text file, then import that file into the FX40 for each EZ-Stat.

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STANDARD CONFIGURATION PRINT - SHORT FORM

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PROJECT INFORMATION

HVAC PRO Version : 0

Configuration File : EZSTAT.PRN

Configuration date : 12/15/2006

OperatorName : DBH

Job Name :

Contract Number : 1

Frequency : 60 Hz

Engineering Units : English (Degrees F)

Device Group : VND

Device Name : EZ-Stat

Application Group : Vendor

Application Name : Vendor

Configuration History:

QUESTION AND ANSWERSESSION

(NONE)

SIDELOOP DEFINITION

(NONE)

ANALOG INPUTS (* Denotes OPERATOR-DEFINED AI)

Point Type	Point Address	Long Name	Short Name
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(NONE) |

BINARY INPUTS (* Denotes OPERATOR-DEFINED BI)

Point Type	Point Address	Long Name	Short Name
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ANALOG OUTPUTS (* Denotes OPERATOR-DEFINED AO)

Point Point

Type Address Long Name Short Name

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(NONE) |

BINARY OUTPUTS (* Denotes OPERATOR-DEFINED BO)

Point Point

Type Address Long Name Short Name

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(NONE) |

PARAMETERS (* Denotes MONITOR ONLY Parameters)

Point Point

Type Address Long Name Short Name Value

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ADI 1 Temp_Chip Temp_Chip

ADI 2 ClgVlv ClgVlv

ADI 3 H_C_Mode H_C_Mode

ADI 4 Output_State Output_State

ADI 5 Cool_PTerm Cool_PTerm

ADI 6 Cool_ITerm Cool_ITerm

ADI 7 CoolDB CoolDB

ADI 8 HeatDB HeatDB

ADI 9 NightHtg NightHtg

ADI 10 NightClg NightClg

ADI 11 SetpntMax SetpntMax

ADI	**12**	**SetpntMin**	**SetpntMin**
ADI	**13**	**KeyPadLock**	**KeyPadLock**
ADI	**14**	**coolsetpoint**	**coolsetpoint**
ADI	**15**	**Ext_0**	**Ext_0**
ADI	**16**	**Ext_1**	**Ext_1**
ADI	**17**	**Info_Byte**	**Info_Byte**
ADI	**18**	**ORT**	**ORT**