APPLICATION NOTE

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Product Family: GS Drives
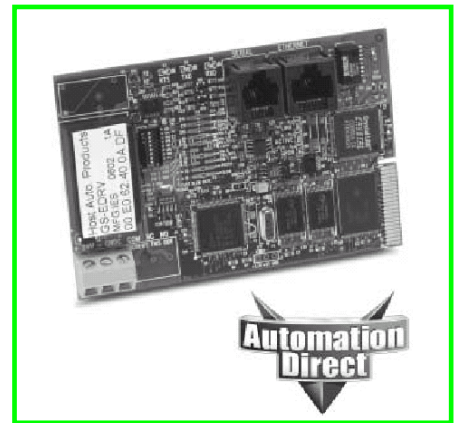
Number: AN-GS-013

Subject: Using H2-ERM and WinPLC to control GS series AC drive via Ethernet.

Date Issued: 12/12/03

Revision: Original

Application Description

An Automation Direct GS-EDRV GS series AC drive Ethernet Interface is to be used to gain access to drive parameters for monitoring and control via the H2-WPLC1-SD and Entivity Studio.

Specifications

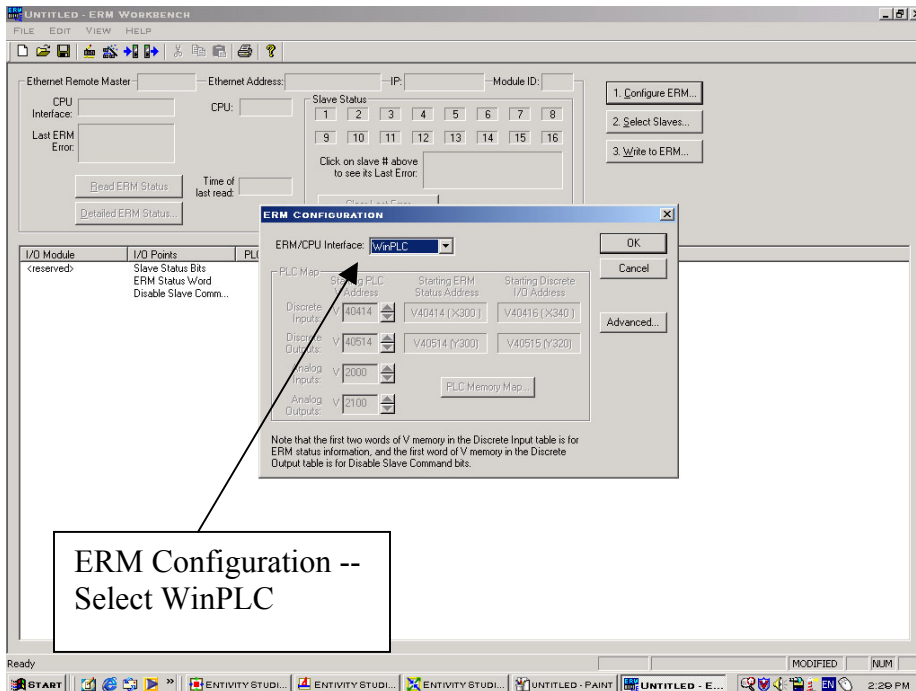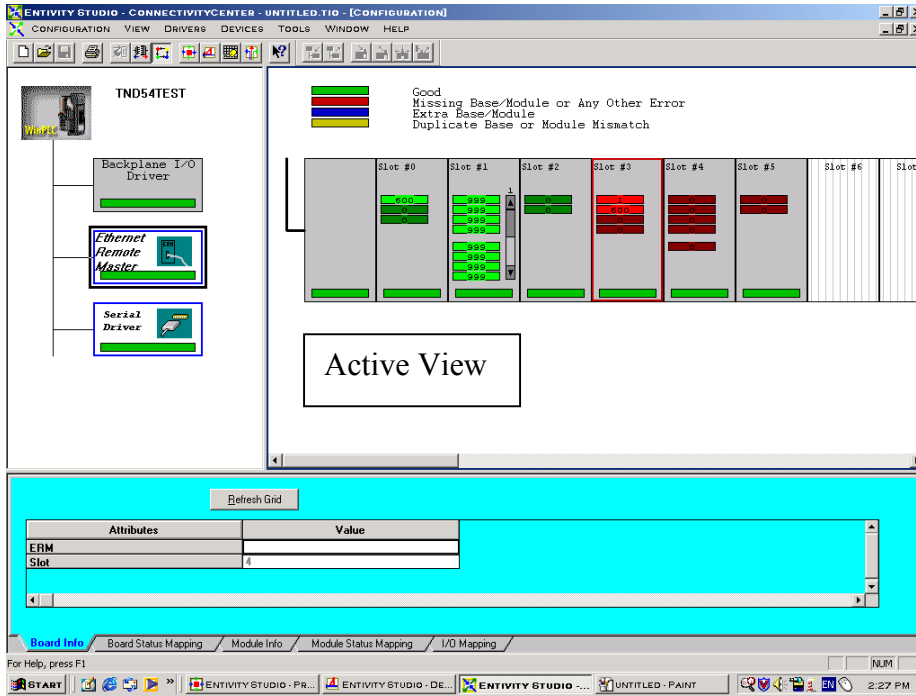|	
Drive network:	1 x GS2-XXXX
	1 x GS-EDRV
PC's:	Entivity Studio running on standard pc.
Winplc:	1 x H2-WPLC1-SD
	1 x H2-ERM

When scanning initial map, the word groups on the GS-EDRV will display as individual cards. It will look like an H2-EBC remote base.

Active View

ERM Configuration -- Select WinPLC

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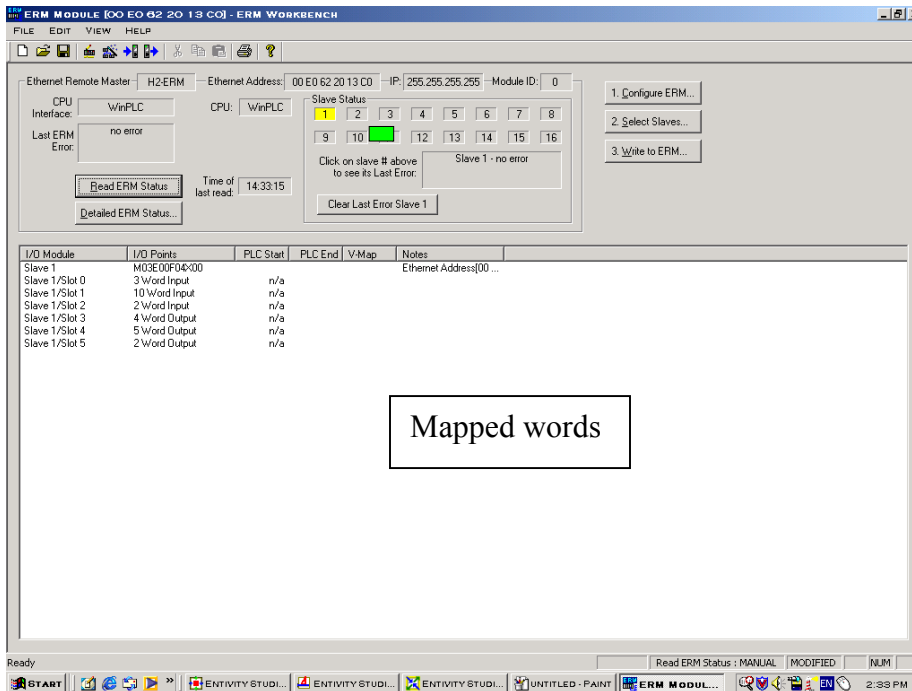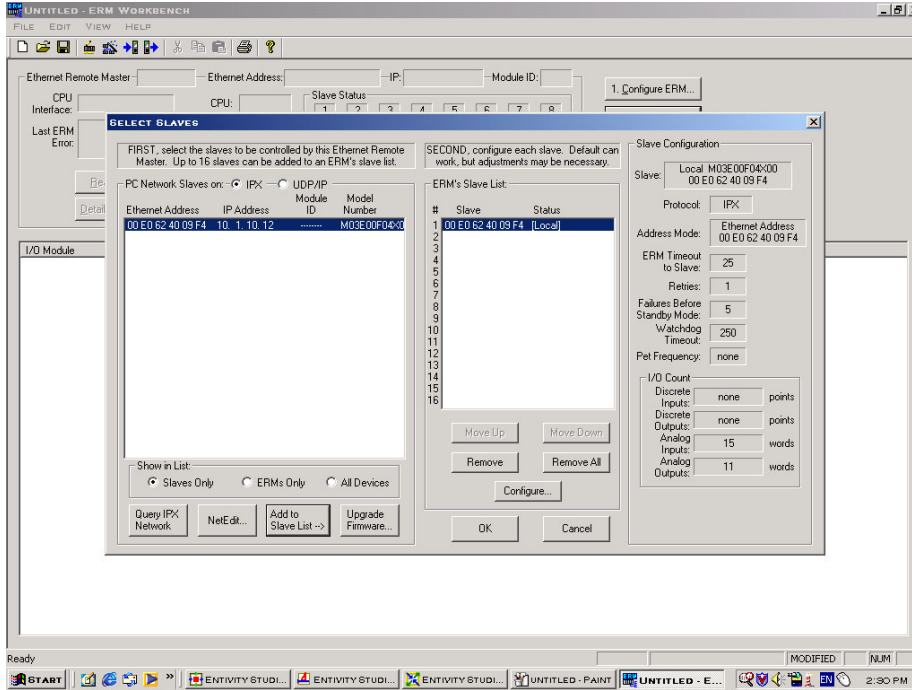IS PROVIDED "AS IS" WITHOUT A GUARANTEE OF ANY KIND.**
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Mapped words

Example Program (Any GS2 or GS1 drive will work with GS-EDRV):

| GS2-43P0	DEFAULT	NEW	COMMENTS
P 0.00	480	460	Motor Nameplate Voltage Setting
P 0.01	5	4.8	Motor Nameplate Amps Setting
P0.02	60	60	Motor Base frequency
P0.03	1750	1725	Motor base RPM
P0.04	1750	1725	Motor Maximum RPM
P1.00	0	1	Coast to stop
P1.01	10	20	Acceleration time
P2.00	0	2	Volts/Hertz set to fans and pumps
P3.00	0	3	RS485 operation control enabled
P4.00	0	5	RS485 speed reference control
P8.00	0	3	RPM display
P9.00	1	X(1)	Communication address (dependent on drive 1-8)
P9.01	1	1	9600 Baud rate
P9.02	0	5	MODBUS RTU 8 data bits, odd parity, 1 stop bit

Modbus Addresses:

Read/Write	Hex	Modbus
Speed Reference	091AH	42331
Run Command	091BH	42332
Direction	091CH	42333
External Fault	091DH	42334
Fault reset	091EH	42335
Jog	091FH	42336
Status 1	2100H	48449
Status 2	2101H	48450
Frequency command	2102H	48451
Output frequency	2103H	48452
Output current	2104H	48453
DC-bus voltage	2105H	48454
Output voltage	2106H	48455
Motor RPM	2107H	48456
Scale frequency (low)	2108H	48457
Scale frequency (high)	2109H	48458
% Load	210BH	48460
Firmware Version	2110H	48465

Basic Diagram:

WINPLC W/H2-ERM

GS-EDRV

GS2 Drive
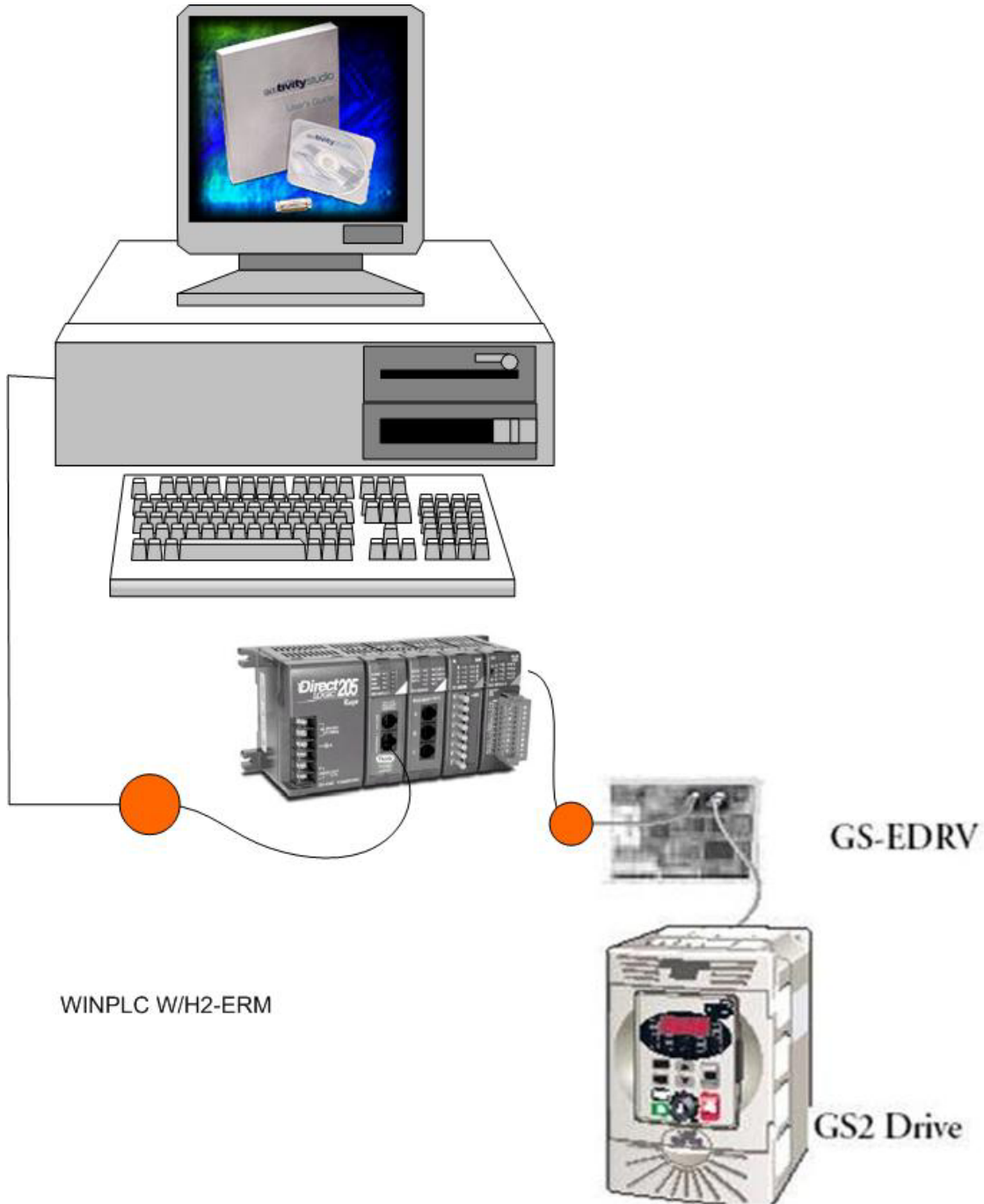
Technical Assistance: If you have questions regarding this Application Note, please contact us at 770-844-4200 for further assistance.