

APPLICATION NOTE

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Product Family: GS Drives

Number: AN-GS-006

Date Issued: 6/18/03

Subject: 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 Modbus TCP/IP protocol inside KepServerEx from http://www.kepware.com/

Revision: Original

Specifications:

Drive network:	1 x GS2-XXXX
	1 x GS-EDRV
PC's:	standard network pc
Software:	KepServerEx V4.0 from Kepware

KepServerEx V4.0 can be purchased directly from Kepware. This Server has the unique ability to communicate to the GS-EDRV card via Modbus TCP/IP. The user must purchase the Modbus driver from Kepware to enable this communication feature.

This application will allow the user to interface the GS series of drives over the Ethernet to any type of HMI or SCADA system that is OPC/DDE compliant. This is very important if the application has mixed plc's and controls from various manufacturers. Kepware has the majority of drivers that can work off a single server in addition to the Modbus required for the GS-EDRV's to accomplish your connectivity needs.

Basic Drive Communication parameter setting:

GS2-43P0	DEFAULT	NEW	COMMENTS
P3.00	0	3	RS485 operation control enabled
P4.00	0	5	RS485 speed reference control
P9.00	1	X(1)	Communication address
P9.01	1	1	9600 Baud rate
P9.02	0	5	MODBUS RTU 8 data bits, odd parity, 1 stop bit



































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1 5/12/2003	8:14:22 AM	Added 2 items to group	'GSEDRV.GSED	RVNODE1.writes'.				powered	up for al	ii connection
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Perform a synchronous w	wite on the selected item	ns :PServerEx - [C:\Pr]	GSEDRV	сер 17.вмр - Р 🕻	* OPC QUICK CLI	NT	,	₩ ₩₩	Item Count: 23	
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KEPware.KEPSer	VerEx.V4 atistics stem DRVNODE1 DRVNODE1System DRVNODE1.reads EDRVNODE1.writes	×	Item ID GSEDRV.G GSEDRV.G	SEDR VNODE 1. writes.ru	Data Type unco Word per Word	Value 1 0		Timestamp 08:15:42:607 08:14:22:322	Quality Good Good	
	BYNCHROI Item ID GSEI	NOUS WRITE	irrent Value	Write Va	alue			OK Apply Cancel		
Date 5/12/2003 5/12/	Time 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22 8:14:22	Added 2 items to group	'GSEDRV.GSED	RVNODE1.read5'.						
♥ 5/12/2003	8:15:43 AM	Synchronous write succ	Seded for 1 ite	tep 18. BMP - P	GSEDRVNODE1.writes'.			Ø (2√ ° ² ≥	Item Count: 23	



These documents are provided by our technical support department to assist others. We do not guarantee that the data is suitable for your particular application, nor do we assume any responsibility for them in your application.

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🛄 GS	EDRVSystem		GSEDRV.GSEDRVNODE1.reads.outcu	Word	0	08:14:22:322	Good	
	EDRV.GSEDRVNODE1							
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5/12/2003	8:14:22 AM	Connected to server 'k	EPware.KEPServerEx.V4'.			if the drive	is ston	ned .
05/12/2003	8:14:22 AM	Added group 'GSEDRV.	_Statistics' to 'KEPware.KEPServerEx.V4'.			II the unive	stop	JCu.
05/12/2003	8:14:22 AM	Added group 'GSEDRV.	_System' to 'KEPware.KEPServerEx.V4'.					
5/12/2003	8:14:22 AM	Added 7 items to group	"GSEDRVStatistics".	E 114				
5/12/2003	8:14:22 AM	Added group GSEDRV.	GSEDRVNODE1System to KEPWare.KEPSe	rverEX.V4.		The output	t current	will
65/12/2003	9:14:22 AM	Added group 'CSEDBY	GSEDRYSystem.	e.		The outpu	i current	VV 111
5/12/2003	8:14:22 AM	Added Sitems to group	GSEDRY GSEDRYNODE1 System			have a val	ue once	a motor
5/12/2003	8:14:22 AM	Added group 'GSEDRV.	GSEDRVNODE1, reads' to 'KERware, KERServe	rFy.V4'.			ue once	
5/12/2003	8:14:22 AM	Added group 'GSEDRV.	GSEDRVNODE1.writes' to 'KEPware.KEPServe	erEx.V4'.		(load) is co	onnected	l to the
0 5/12/2003	8:14:22 AM	Added 2 items to group	GSEDRV.GSEDRVNODE1.reads'.			(1000) 15 0	Jintected	
5/12/2003	8:14:22 AM	Added 2 items to group	GSEDRV.GSEDRVNODE1.writes'.			output of t	he drive	
0 5/12/2003	8:15:43 AM	Synchronous write suc	ceeded for 1 items on group 'GSEDRV.GSEDR	VNODE1.writes'.		ouipui oi i		•
0 5/12/2003	8:16:21 AM	Synchronous write suc	ceeded for 1 items on group 'GSEDRV.GSEDR	VNODE1.writes'.				
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кеаду			[m				jitem Count: 23	1
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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

Technical

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