RS-485 Quick Start Guide – IDEA[™] Motor Series



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Items:

Name	Part Number				
I/O Cable	56-1352				
USB Cable	56-1346				
Flash drive					
Power Supply	56-2114				
I/O Box	SP22122-15				
I/O USB	56-2115				
USB to RS485					
converter	UTR4852				
RS485 Cable	56-1536-1				
Motor/drive	EC042B-x0MP-9xx				

Power plug blades for international kits supplied

Install the Software on your PC

PC Windows-based

1. From the flash drive copy to your desktop the zipped file labeled IDEADrive Software Setup



IDEADrive Software Setup

3. Double click on the "IDEADrive Software Setup" to begin the installation



4.Click "Next."

10/2/2017 11:39 AM Application

10/18/2017 3:37 PM

54,621 KB

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File folder



5. Select "I accept the terms in the license agreement" and click "Next."

License Agreement							
Please read the following license agreement carefully.							
END USER SOFTWARE LICENSE AGREEMENT	^						
This End User Software License Agreement (this "Agreement")							
constitutes a legal agreement between you ("Licensee") and Haydon Kerk							
Motion Solutions, Inc., a corporation with a business address at 1500							
Meriden Road, Waterbury, Connecticut 06705 ("Licensor"). Licensee							
should carefully read the following terms and conditions prior to using the							
Licensed Software (as hereinafter defined). By clicking on "Next",							
Licensor is willing to and will permit Licensee to download the Licensed							
Software (as defined below) for the Permitted Purpose (as defined below) v							
I accept the terms in the license agreement	Print						
O I do not accept the terms in the license agreement							
I do not accept the terms in the license agreement							
O I do not accept the terms in the license agreement InstallShield							

6. Click "Install"

🚽 IDEA Drive Software - InstallShield W	/izard		×
Ready to Install the Program			
The wizard is ready to begin installation	ı.		1 1 1
If you want to review or change any or exit the wizard.	f your installation s	ettings, click Back. C	Click Cancel to
Current Settings:			
Setup Type:			
Typical			
Destination Folder:			
C:\Program Files (x86)\Haydon Ke	rk-Pittman\IDEA Dri	ive Software\	
nstallShield			
	< Back	Install	Cancel

7. Click "Finish"

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8. Double Click the idea drive icon



If no FTD driver has been installed or if it needs an update. The following windows will appear

1. Click yes when it asks for the update





2. Click "Extract"



3. Click "Next"

Device Driver Installation Wizard							
	Welcome to the Device Driver Installation Wizard! This wizard helps you install the software drivers that some computers devices need in order to work.						
	To continue, click Next.						
	< Back Next > Cancel						

4. Accept agreement and click "Next."





5. Once installation completes, click "Finish"

Device Driver Installation Wizar	llation Wizard Completing the Device Driver Installation Wizard					
	The drivers were successfully installed on this computer. You can now connect your device to this computer. If your device came with instructions, please read them first.					
	Driver Name Status ✓ FTDI CDM Driver Packa Ready to use ✓ FTDI CDM Driver Packa Ready to use					
	< Back Finish Cancel					

Operating motor/drive

1. Plug USB Cable 56-1346 to computer and UTR4852 convertor. Plug 56-1536-1 to convertor and Motor. Connect Power Supply 56-2114 into IDEA Drive USB and power port respectively.





2. Plug I/O USB cable 56-2115 into I/O box SP822122-15



3. Plug the USB cables in pc and Ensure Drive is recognized by the computer prior to running software, otherwise the GUI will open in offline mode. Plug power supply into wall receptacle. Launch IDEA Drive GUI by double clicking on IDEA Drive icon.



4. Select brushless



5. In the drop down, menu select model number. Give it a configuration name.



BLDC Motor Configurat	ion	
IDEA Drive		
Communication Mode :	Single	~
COM Port :	COM4 ~	•
Current Address :	255 ~	Set Address
Configuration Name :		~
Motor	-	
Model :	EC042B-10M	0-805-SP 🗸 🗸
Operating Voltage :	24	Vdc
Voltage Constant :	0.0415	V/(rad/s)
Resistance :	2.64	<u>Ω</u>
Inductance :	2.8	mH
Rotor Pole Count :	4]
Hall Spacing :	120° ~	
Complement Hall C	Dutput	
Rotor Position :	3	
Encoder		
CPR :	1000	cycles
Direction :	B Leading A	(CW) ~
Encoder Position :	0.000	
Position Measureme	nt	
Display Units :	Revolutions	Per Minute 🗸 🗸
Gearbox		
Gear Ratio :	1]:1
Lead Screw		
Lead :	0.01	Inches \vee
ОК	Cancel	Help
		III IKENI CONCA

6. Select a motion command and fill out the information. Highlighted in orange.

IDEA Drive	Interface - 4	1.0.0.3 (BETA)	BLDC Drive	Real Ti	me Mode	<u>=)</u>			-	- 0	×
File Edit	Program	IDEA Drive	Settings	View	Help			Maydo	ker	k [°] PIT	TMAN
Motion			Other		Debug			Debug Output			
Index CW	E-S	itop	Set Outputs		Start D)ebug Single	e Step				^
Index CCW	St	ор	Set Position		Run To	Label					
Move To	Failsafe	e Limits	Control Gains	s	Clear D)ebug					
Go At Speed	Trape	ezoid	Reset		Save E	Debug	oscope				
Action Labe	el D	lescription			Comment				1		
		Execute Inc	dex CW Com	mand				×			
		Dist	ance :		rev	Acceleration R	late : 2650	78.8 rev/min/min			
		S	peed :		rev/min	Deceleration R	late : 2650	78.8 rev/min/min			
		Run Cu	urrent :	1.818	Apeak	Acceleration Curr	rent : 1.818	A peak			
		Hold Cu	urrent :	1.818	Apeak	Deceleration Cur	rent : 1.818	A peak			
		Delay	Time :	0.05	sec						~
		Total	Time :		sec	Average Spe	eed :	rev/min			~
		1	Label :								
		Com	ment :							Sto	р
		P	lot				Execute	Cancel			
								Position Command Position Measured Position Erro		0.00 0.00 0.00	00 rev 00 rev 00 rev
								Velocity Command Velocity Measured Velocity Erro	1: 1: r:	0.0	00 RPM 00 RPM 00 RPM
									1 2	3 4	
Failsafe	tor	Position Trip		Disable	ed rev	Program Lo	noth -	Inputs :		• •	
Normal Oper	ation St	osition Error Trip all Duration Trip		Disable Disable	ed rev ed sec	16 bytes / 1	1 pages	Outputs : (0 0	0 0	
Ready										٨М	ETEK
答复:测试治具		7:11 AM			oot Erio 9	Streat Suite 200	Kont (bio 44240 LIEA	_	ADTANCED	

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