

Applied Motion Products MDX-L IP65 Integrated Servo Motor User Guide

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Requirements

- A 24-60VDC power supply.
- A PC running Microsoft Windows XP, or Windows 7/8/10.
- · Software: MDX Servo Suite.
- A 3004-331-XX (right angle), 3004-332-XX (straight) power cable,
- A 3004-333-XX (right angle), 3004-334-XX (straight) I/O cable if needed
- For RS-485 and CANopen models: 3004-288-xx programming cable. You may need an Applied Motion 8500-003 USB-serial adapter with screw terminal connector in order to connect your MDX to your PC for configuration, tuning and programming.
- For daisy-chain connections of two or more motors, the 3004-384-XX (straight) or 3004-385-XX (right angle) cables are recommended.
- Termination resistor is recommended for all CANopen networks and large RS-485 networks (15 axes or more).
 p/n. 3004-382, 3004-383.

Step1

- Visit <u>www.applied-motion.com/products/software</u> to download the MDX Servo Suite software.
- Install the MDX Servo Suite software on your PC.
- Connect the drive to the PC using the appropriate programming cable.

Connect the Power Supply

- Use one of the power supply mating cables listed above.
- Connect main power supply "+" to power cable's "BK1" wire, connect power supply "-" to power cable's "BK2" wire.

- Be careful not to reverse the "+" and "-" wires. Reversing the connection may blow the internal fuse and void the warranty.
- If a regulated power supply is being used, there may be a problem with regeneration that can be solved with
 the use of an Applied Motion RC880 Regeneration Clamp. See the Applied Motion website or the MDX
 Hardware Manual for more information. www.applied-motion.com/products/accessories/rc880



Step3

Configure the MDX Servo Suite software.

- Open the MDX Servo Suite software on your PC.
- Select communication port for the motor.
- · Apply power to the MDX servo motor.
- Connect to the motor The software should automatically identify the motor model number upon power up and display the 'Upload' panel: Click "yes" to upload the drive configuration



- Begin configuring the motor according to your application requirements.
- When ready to test your configuration, click Download All to Drive.

Communication Wiring

Note: Cables are not included and must be purchased separately. CANopen & RS-232 Communication For RS-232 models please use 3004-278-5M RS-232 programming cable.

Only COM1 can be used for both drive configuration with RS-232 serial communication and CANopen daisy chain network. COM2 is for CANopen daisy chain network only.

RS-485 Communication

For RS-485 and CANopen models use 3004-288-XX programming cable. Part no. 8500-003 is a recommended

USB to RS-422/485 converter. It supports either the half-duplex (2-wire) RS-485 network, or the full-duplex (4-wire) RS-422 network.

CANopen Communication

PIN	COM1 Signals	COM2 Signals	Color
1	RS-232 TX	N/C	Brown
2	RS-232 RX	N/C	White
3	CAN H	CAN H	Blue
4	CAN L	CAN L	Black
5	GND	GND	Gray

USB to RS-422/485 Converter

DB9 Male (PIN)	Converter Output	Drive	DB9 Male (PIN)	Converter Output	Drive	Color
1	T/R+	RX+	1	TX+	RX+	Brown
2	T/R-	RX-	2	TX-	RX-	White
1	T/R+	TX+	3	RX+	TX+	Blue
2	T/R-	TX-	4	RX-	TX-	Black
5	GND	GND	5	GND	GND	Gray

• 4-Wire Connection

If you have any questions or comments, please call Applied Motion Products Customer Support:(800) 525-1609, or visit us online at applied-motion.com.

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Documents / Resources



<u>Applied Motion Products MDX-L IP65 Integrated Servo Motor</u> [pdf] User Guide MDX-L IP65 Integrated Servo Motor, MDX-L IP65, Integrated Servo Motor, Servo Motor, Motor

References

- Market Applied Motion
- RC880 | Applied Motion

Manuals+,