ADVANCED MOTION CONTROLS

# RS485 Communication to DZ using MC1XDZ

## Introduction

The DZRALTE-012L080 servo drive supports RS485 communication in addition to the standard RS232 communication. The drive ships from the factory set for **RS232** communication. Default communication parameters are ***9600 baud*** and drive address ***63***.

## Configuring the DZRALTE for RS485

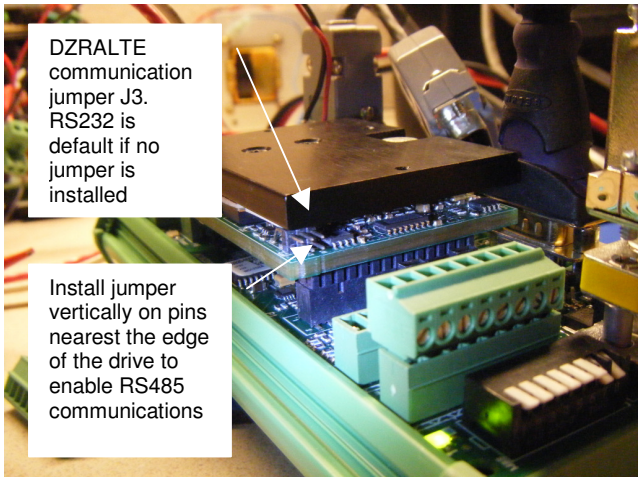
In order for the drive to communicate via RS485, the RS485 selection jumper must be installed on the DZRALTE. The J3 jumper is pictured below on the DZRALTE mounted to a MC1XDZ.

Once the jumper is installed, the drive must be power cycled to enable RS485 communications. The default RS485 communication parameters are ***9600 baud*** and ***address 63*** respectively.

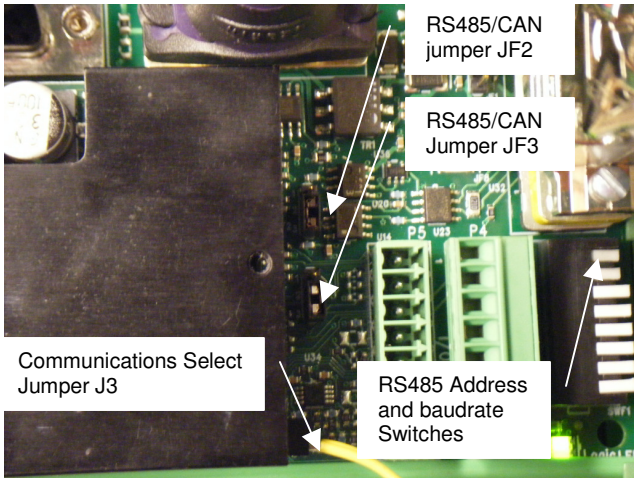
## Configuring the MC1XDZ for RS485

The MC1XDZ mounting card must also be configured properly to support RS485 communication. The factory default is **RS232** communication and CAN. To enable RS485 communication, jumpers **JF2** and **JF3** must be moved so that pins 2 and 3 are shorted together via the jumper. The factory default is **RS232** communication with pins 1 and 2 of **JF2** and **JF3** shorted.

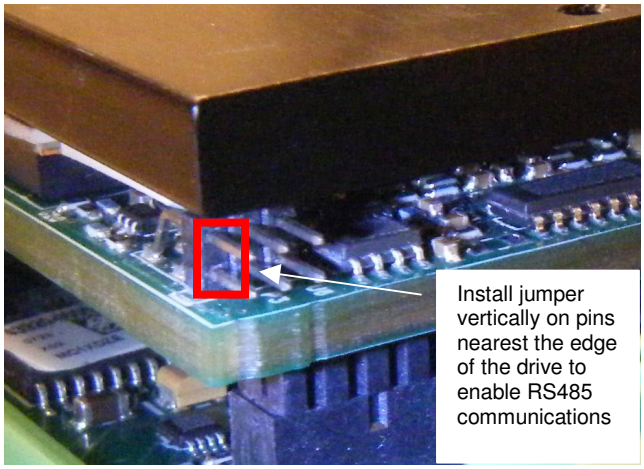
### DZRALTE-012L080 and MC1XDZ



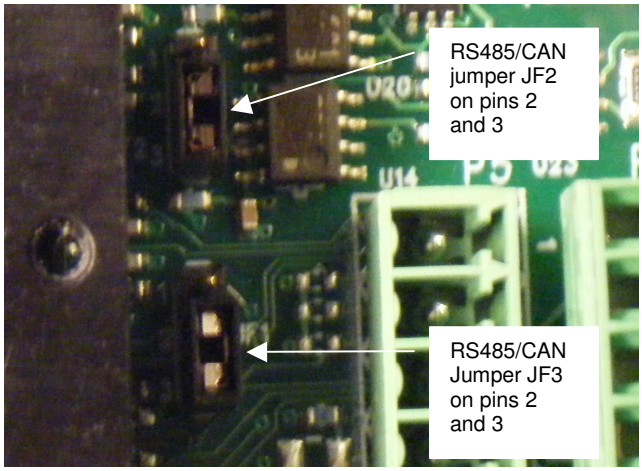

### Jumper Locations on MC1XDZ




### Jumper Locations on MC1XDZ




### Jumper Settings on MC1XDZ



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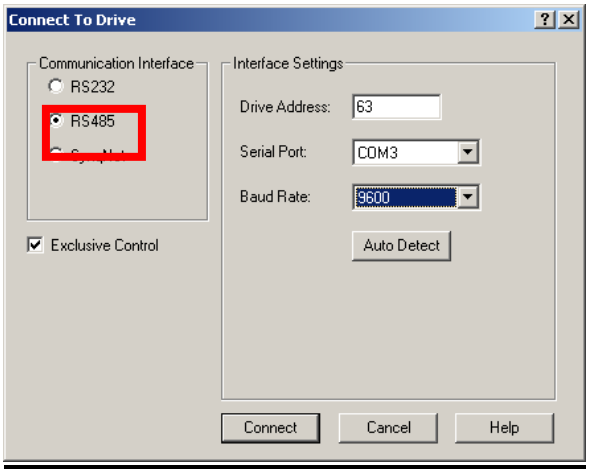
# RS485 Communication to DZ using MC1XDZ

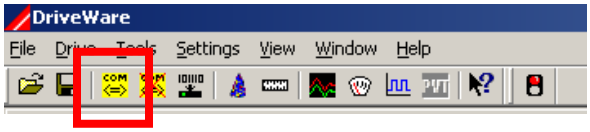
Unlike RS232 mode, RS485 mode supports the selection of drive address and baudrate via hardware using the switches on the MC1XDZ. The factory default is software addressing with all switches off. If switch changes are made, the drive must be power cycled before the changes will take effect.

## RS485 Connection via DriveWare

If hardware is properly configured, Drive Ware can communicate via RS485 to the drive. At the communications screen, select RS485 and make sure the drive address and baudrate match. Note: if hardware addressing and baudrate are used via the switches, make sure the values are properly entered here or communication will not work.




Once RS485 connection is established, the RS485 baudrate and drive address can be changed by pressing the connect icon on the tool bar and entering new values into the ***connect to drive*** dialog then pressing Connect.




Verify that the new baudrate took effect by looking at the bottom center of the drive ware window for connection status


Make sure to save any changes to Non-Volatile memory by using the toolbar icon or selecting Drive -> Store to Drive option from the main menu.

**NOTE:** The RS485 communication parameters are independent of RS232 parameters. If the drive is returned to RS232 mode, the original communication parameters that were set in RS232 mode will take affect. The factory default is to set both sets of parameters identically, but in practice it is possible to have two different sets of parameters.