TECHNICAL NOTE TNG3K4

Title: Converting From G304K to G304K2

Product(s): G304K / G304K2

Abstract

The purpose of this document is to describe the steps necessary to convert your existing Crimson 2.0 or Crimson 3.0 program to run in the new G304K2. It also address wiring concerns as the connections have changed.

Introduction

Converting from Crimson 2.0

If you are currently using Crimson 2.0 to program your existing G304K you will now need to upgrade to Crimson 3.0 to program your new G304K2 hardware. The steps below will walk you through the required conversion process.

The first step which is validating your tags will take place in Crimson 2.0. Open your Crimson 2.0 database file and navigate to the data tags section. In the Utilities section click on the Validate All Tags button. If there are no errors you will not see anything happen, but if there are errors, you will see a box asking you to save the errors to your clipboard. If you choose to save the errors you can open any text editing program, such as notepad and go to Edit > Paste. This will approximately identify where the problem is located in the file.

Then you will need to open the Crimson 3.0 software and go to File > Import. Select the file you want to load into the G3. You will now be prompted with instructions, including two items you must accept. The first item to accept indicates that the import may be less than 100% complete. The second will indicate that you have performed the Validate All Tags operation in Crimson 2.0 prior to the import. Once both are accepted you should see a window stating that the import was successful. At this point your file is still configured for the G304K, so you will need to go to File > Save Conversion. Choose the G304K2 and you will be prompted to save your file.

Now that the file has been upgraded to run in Crimson 3.0 you will need to navigate to the communications section and make any changes needed to accommodate the changes in port configuration. Your current G304K allowed for connection to the RS232 programming port and one mode of the comms port (RS232 or RS485). The new G304K2 allows you to use one mode of the serial port (Programming or RS485) and the RS485 Auxiliary port. Due to this change you may need to reconfigure your communications to comply with the new modes available. The easiest way of moving devices in the communications section is to first take note of the device name (ex: PLC1). Then click on the currently used port and click Clear Port Settings. Now go to new port and select the same driver that was previously used. If required, rename the device to match what you previously deleted (ex: PLC1). Finally, you can go to File > Utilities > Recompile Database.

The last thing you will need to do is navigate to the display pages section of the software. Here you will need to verify that there are no errors after the conversion.

Converting from Crimson 3.0

If you are already a Crimson 3.0 user you will convert your existing G304K program to work with your new hardware. The steps below will walk you through the required conversion process.

First you will need to open your existing file and go to File > Save Conversion. Select the G304K2 model and click convert. You will be prompted to save your new file.

Now that the file has been converted to work with your new hardware you will need to navigate to the communications section and make any changes needed to accommodate the changes in port configuration. Your current G304K allowed for connection to the RS232 programming port and one mode of the comms port (RS232 or RS485). The new G304K2 allows you to use one mode of the serial port (Programming or RS485) and the RS485 Auxiliary port. Due to this change you may need to reconfigure your communications to comply with the new modes available.

Wiring

The port configuration has changed with the new hardware. The RS485 comms port has remained the same and can be used in either 2 or 4 wire mode. The RS232 port now shares duties as both a comms port and the programming port. A dedicated RS485 auxiliary port now takes the place of the previous programming port. Due to the new port configuration your existing programming cable will no longer work. You should now use the CBLUSB4K for a USB connection, or the CBLPRO4K for a serial connection. If your application makes use of the RS232 port you must use the StopSystem() command in your database to free the port for programming.