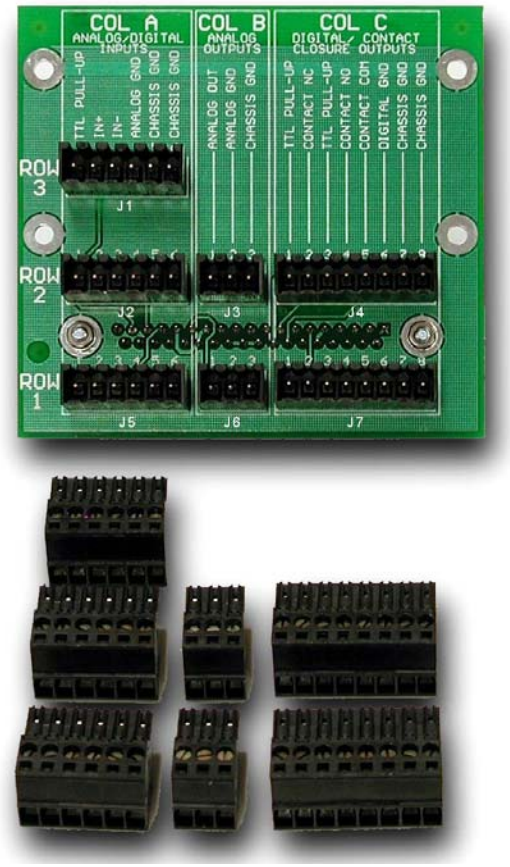
Input/Output Connector Installation Instructions

Kit No. 03-938478-90

Input and output signals can be used for external modules or devices. These modules include purge and trap concentrators, direct insertion probes, and fraction collectors. Communication with these external devices requires the use of the I/O (Input/Output) Connector PWA (Printed Wire Assembly). Varian part number CUB0600047.

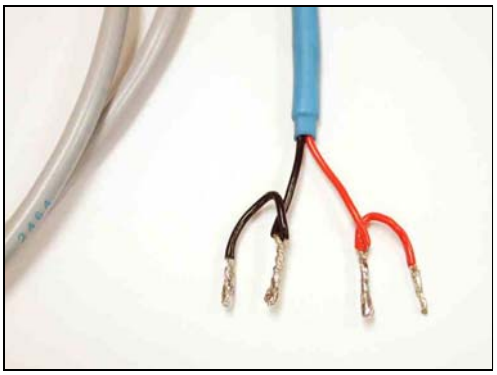
The following are pictures of the I/O connector PWA with the connections removed.



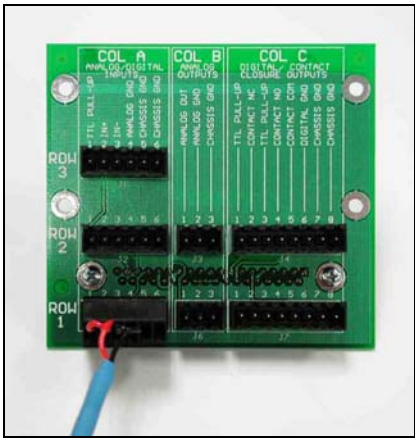
I/O Connector PWA with connectors removed (part number CUB0600047)

Hardware Setup

1. Connect the appropriate cable from the external device or module to the connector on the I/O Connector PWA. Tighten the retaining screw on each wire. Gently pull the wire to ensure the connection is secure.
2. If an external device is to start the instrument, then a Start-In signal is required. Connect the appropriate wire from the external device to #1 and #2, and the other wire to #3 and #4 on the 6-pin connector of the I/O Connector PWA. For this example, plug the connector into J5 (Row 1, Column A).



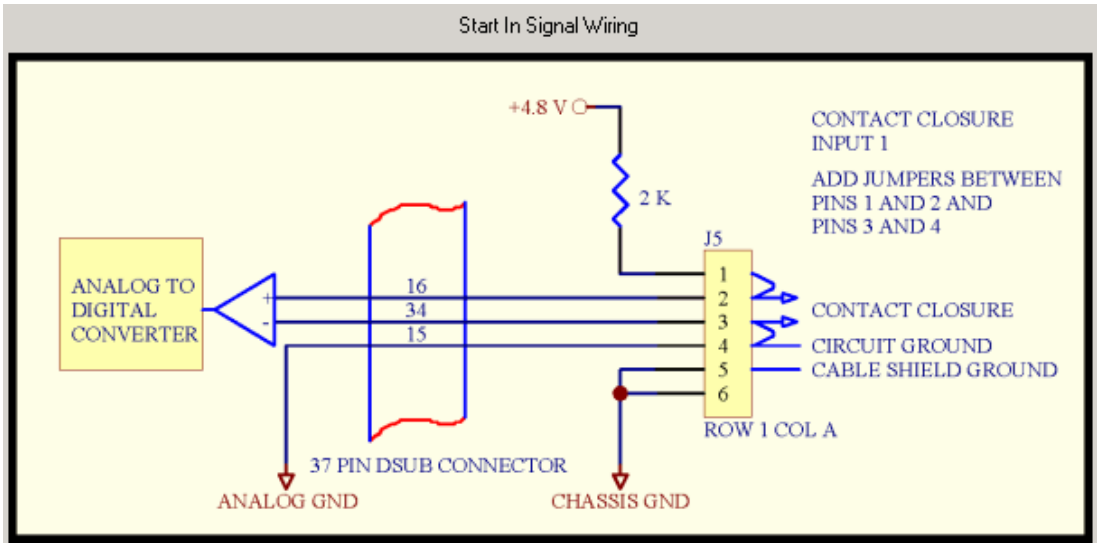
Start-In Signal Cable wiht Jumper Wires

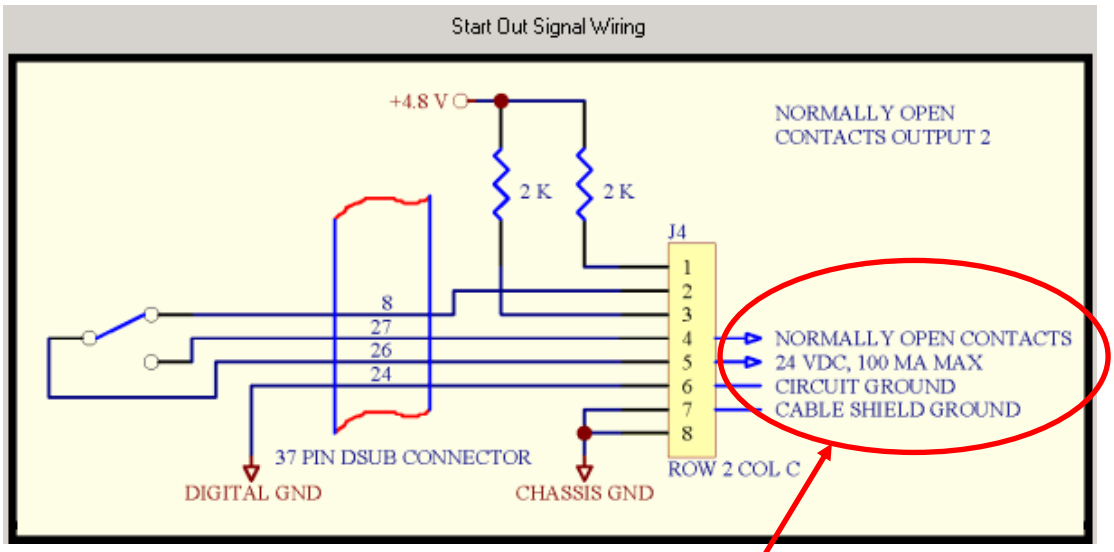


Typical Start-In Signal Cable Connected to the I/O Connector PWA

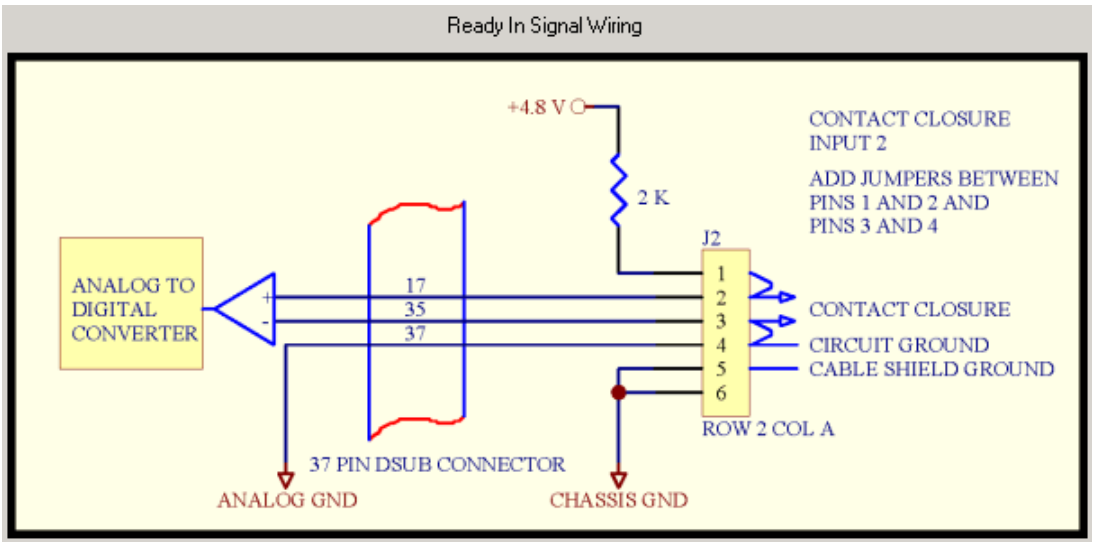
NOTE: Use the correct connector type (6-pin or 8-pin). Also, be sure that the connector is plugged into the correct jack on the I/O PWA. The wiring schematics in the software shown in step 2 specify the jack connector (J2, J4,J5, or J7) and the Row and Column position (Row 2 Column A, Row 2 Column C, Row 1 Column A, or Row 1 Column C, respectively).

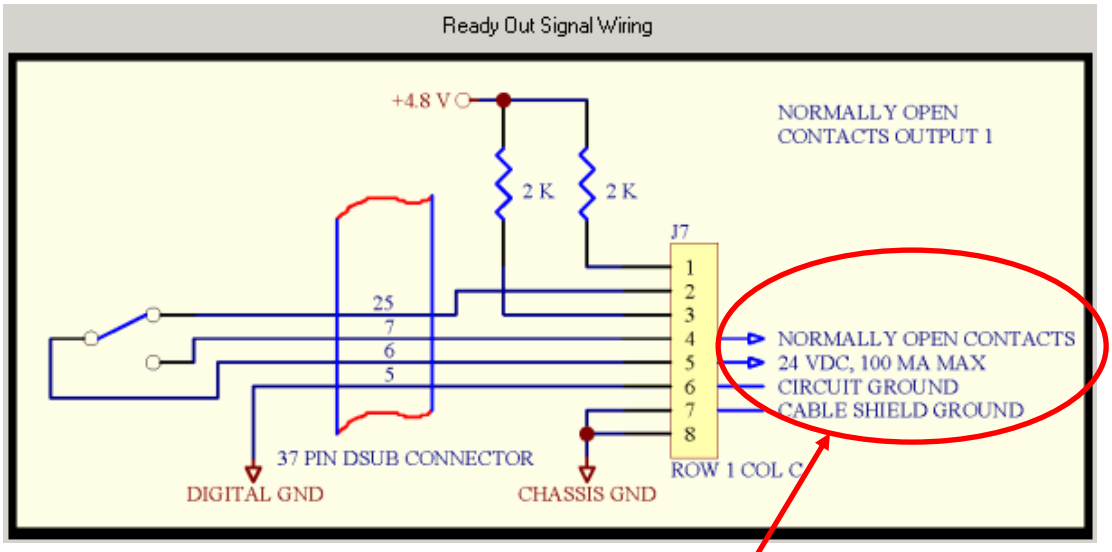
3. The software has setups for Start and Ready configurations, Quad Module>Configuration button>Sync signal.
4. Following are some examples. The left side of the schematic is the instrument and the right side is the connection to/from the external device. 'In' refers to 'into the instrument' and 'out' refers to 'out of the instrument.' For example, a 'Start-In Signal' sends a signal INTO the instrument start it.





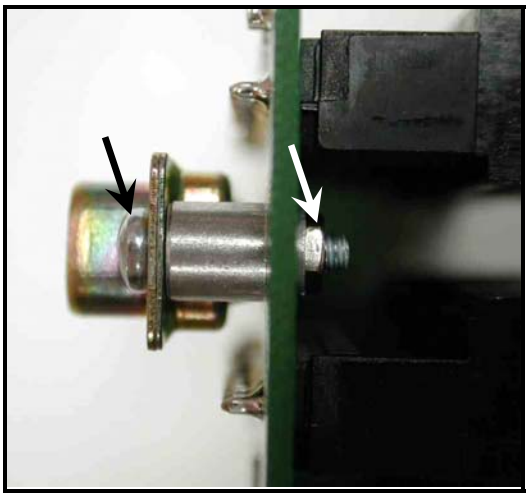
WARNING:
24V DC, 100 MA MAXIMUM



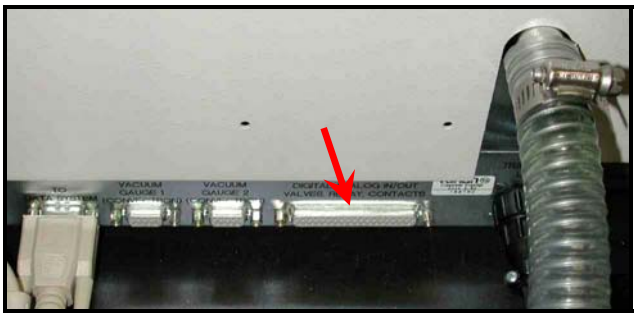


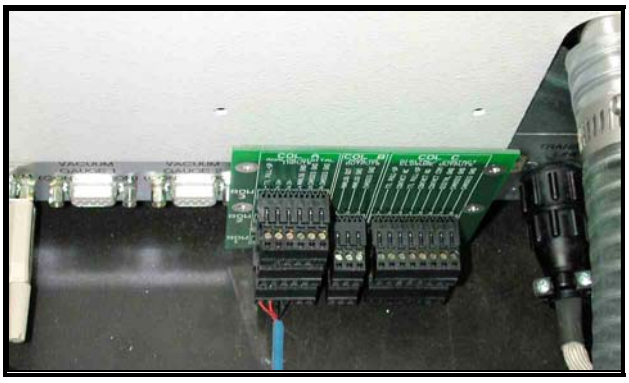
WARNING:
24V DC, 100 MA MAXIMUM

Before connecting the I/O Connector PWA to the instrument, remove the two screws and two nuts, if present on the 37-pin DSUB connector on the I/O PWA to ensure a good connection.



5. Connect the I/O Connection PWA to the D37 connector on the back of the instrument. You may be able to use the two screws from step #3 to hold the I/O PWA onto the instrument.

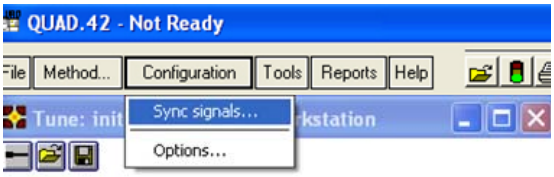


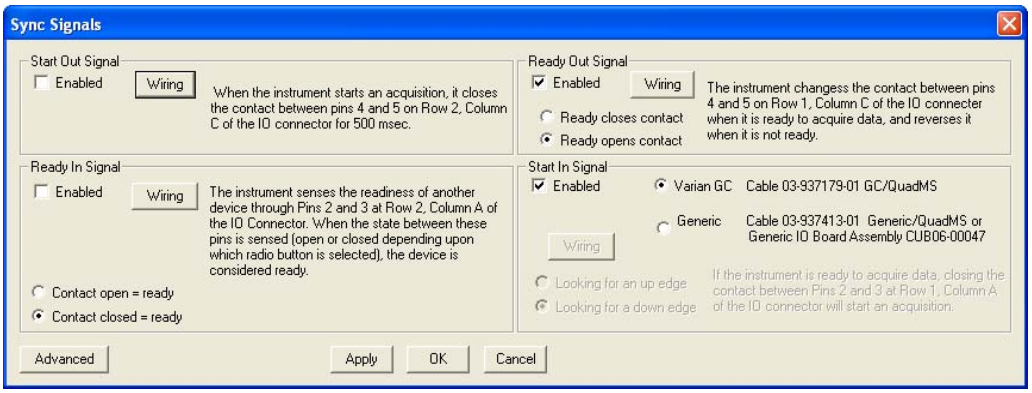


Software Setup

1. Open **System Control** from the MS Workstation software.

2. In the **Quad Module,** click the **Configuration** and **Sync signals.**





3. Click **Advanced**.