

# AP & APV Set-Up and Connections

## Pump Groups

The AP & APV modules may be combined so that up to four modules can be operated from the same RS232 logic board. A ribbon cable carries power and logic to each of the modules in the group. Each module has an address jumper whose placement on J4 corresponds to the software's PUMP\_NUM. The jumpers may be set in any order for a group of the pumps, however TriContinent's convention for setting the jumpers is shown below.

*Note that the firmware residing on the RS-232 logic board will service four pumps. If your configuration includes fewer than four pumps, don't send commands to pumps that are not there.*

## Logic Groups

One logic board is required to provide control to the pump panels and communications to the host computer. Evaluation systems will include a cable for RS-232 connection to the host computer. If you provide your own cable, be sure the wiring is the same as below.

