

## PI-D Connection of Multiple Units in Series or Parallel.

### Notes.

Multiple units can be connected in series or parallel to attain the required output voltage or output current.

All units must share the same disconnect device and overcurrent device.

For output voltages exceeding 42.4V<sub>peak</sub> or 60V<sub>dc</sub> suitable isolation must be implemented.

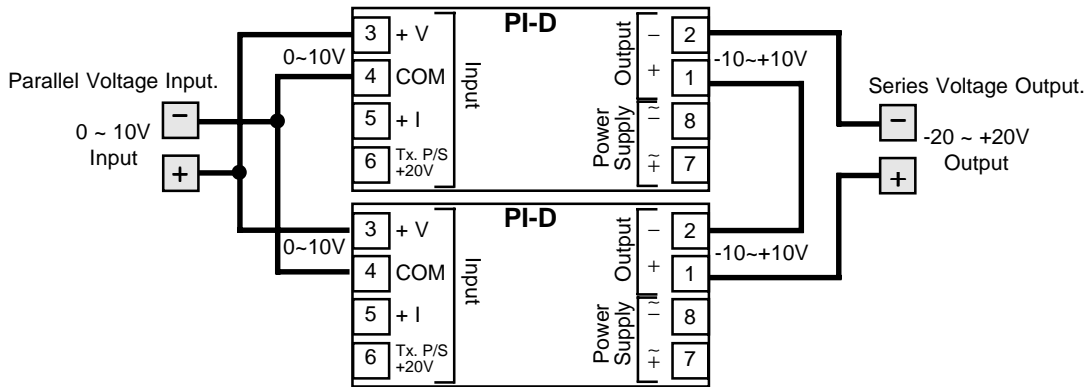
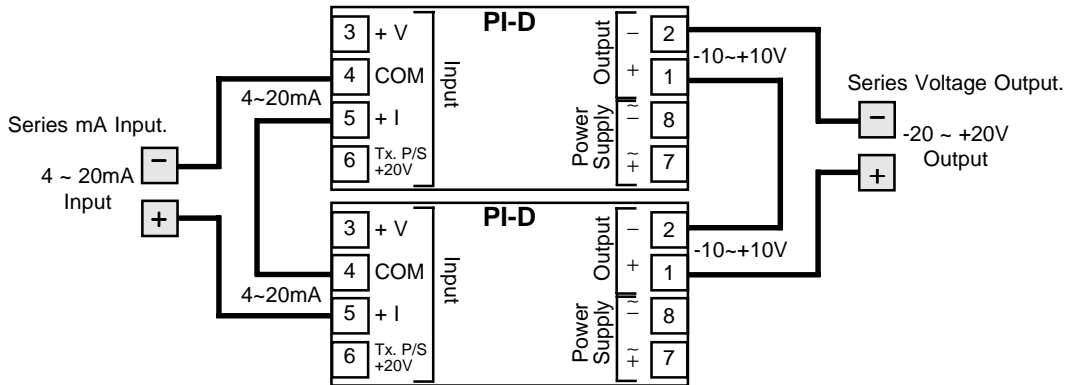
For each PI-D current input allow 25Ω input resistance per input. So if 4 current inputs are connected in series the total input resistance will be 100R.

For each PI-D voltage input allow 200kΩ input resistance per input. So if 4 voltage inputs are connected in parallel the total input resistance will be 50kΩ.

For each PI-D the maximum output current is 20mA into 500Ω (10V<sub>dc</sub>). So if 4 current outputs are connected in parallel the maximum output current is 80mA into 125Ω (10V<sub>dc</sub>).

For each PI-D the maximum output voltage is 12V at 10mA (1200Ω). So if 4 voltage outputs are connected in series the maximum output voltage is 48V at 10mA (4800Ω).

### PI-D Series Voltage Output Connection Example.



### PI-D Parallel Current Output Connection Example.

