Example control loop built around Honeywell UDC2000 controller

4-20 mA loop-powered process transmitter

Example: Rosemount 1151 pressure transmitter

24 VDC power supply

+

−

L1

L2

120 VAC power

H   L

Honeywell UDC2000 controller

8 +   *1-5 volt PV input*   9

250 Ω resistor

7 −   10

6   11

20 PSI air supply

5 +   *4-20 mA MV output*   12

Wires

4 −   13

L2   14

I/P transducer

+   −

L1   15

Example: Fisher 546 electro-pneumatic transducer

16

Air tube

120 VAC power

Sliding-stem control valve

Example: Fisher E-body globe valve with 667 actuator

(2008) Tony R. Kuphaldt