

Absolute Process Instruments, Inc.

Manufacturer of Quality Signal Conditioners Transmitters & Isolators

Application Notes

- General Info
- Temperature
- Pressure
- Flow
- Speed
- Weighing
- Process

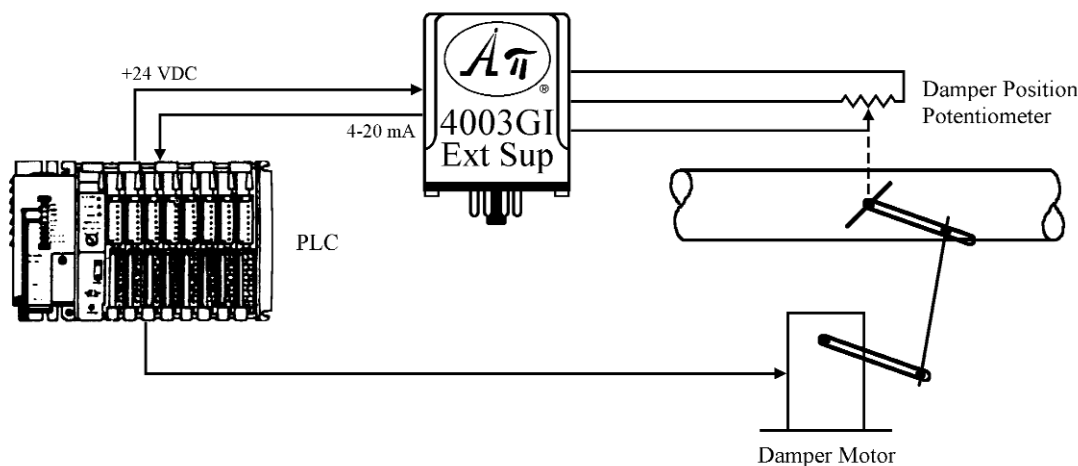
Controlling Damper Position

PROBLEM

A programmable logic controller (PLC) is controlling a damper motor as part of a process. The damper is equipped with a linear potentiometer for position feedback, and the PLC has a single-ended 4-20 mA input and generates its own 24 VDC power for the loop.

SOLUTION

An API 4003 G I EXTSUP Isolated Potentiometer to DC Transmitter module with External Supply modification measures the resistance of the damper position feedback potentiometer and transmits it to the PLC's powered input as a 4-20 mA signal.



The external supply modification uses the +24 VDC power supplied by the PLC and regulates the 4-20 mA signal. The 2000 VRMS isolation protects against unexpected ground loops and electrical noise.

Did You Know...?

The API 4003 G will accept potentiometer inputs from 100 ohms to 1 megohms.

FREE APPLICATION ASSISTANCE
 Call Customer Service
800-942-0315