CATEGORY:
- ❑ Temperature
- ❑ Pressure
- ■ Flow
- ❑ Speed
- ❑ Weighing
- ❑ Other

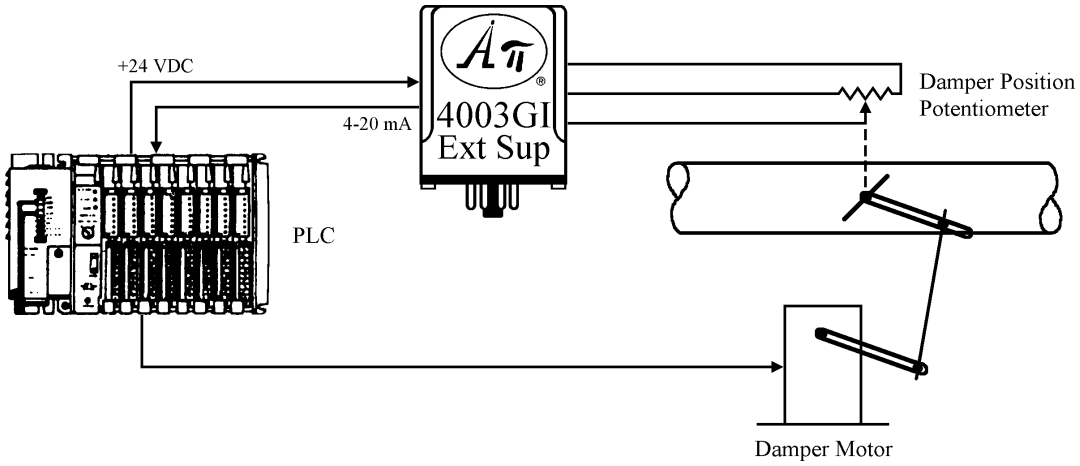
CONTROLLING DAMPER POSITION

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 Model 4003GI-Ext Sup 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 V_{RMS} isolation protects against unexpected ground loops and electrical noise.

Did You Know ... ?

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