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

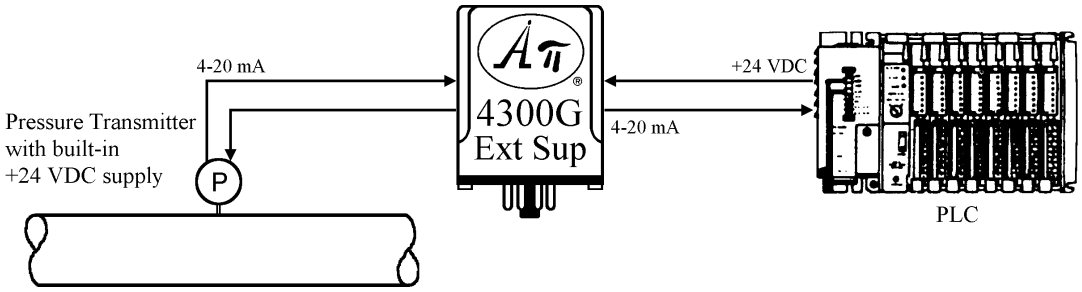
MONITORING PRESSURE WITH A PLC

PROBLEM:

A pressure transmitter with an internally powered 4-20 mA output must be monitored by a programmable logic controller (PLC) for use in control of a process, but the 4-20 mA input of the PLC is also powered from the PLC's built-in power supply. The standard Api 4300G Isolated DC to DC Transmitter generates a 4-20 mA output at a 20 V compliance voltage. The output of the module would conflict with the power generated by the PLC input channel.

SOLUTION:

An Api Model 4300G-Ext Sup Isolated DC to DC Transmitter module with External Supply modification will allow the pressure signal to be transmitted to the PLC's powered input.



The external supply modification uses the +24 VDC power supplied by the PLC and regulates the 4-20 mA output signal in proportion to the input signal it receives from the pressure transmitter. The 2000 V_{RMS} isolation of the module protects against unexpected ground loops and electrical noise.

Did You Know ... ?

The external supply modification is available on Api modules with other input types.