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

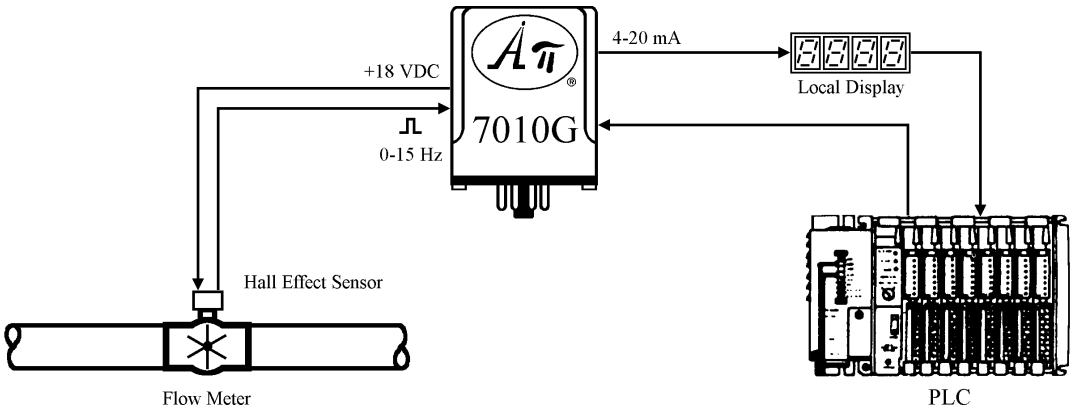
USING A HALL EFFECT FLOW SENSOR

PROBLEM:

An accurate flow measurement is required at low flow rates for a process controller. A local display is also desired.

SOLUTION:

Hall effect sensors are recommended when the output frequency from a flow meter over any part of the application flow range is 15 Hz or less. This frequency typically occurs at approximately the 10 to 1 turndown point for flow meters.



An Api Model 7010G Isolated Frequency to DC Transmitter module provides the DC power for the Hall Effect sensor from its built-in loop excitation supply and converts the 0-15 Hz flow signal into a 4-20mA signal to drive the local display and the PLC. The 2000 V_{RMS} isolation protects against unwanted ground loops and electrical noise.

Did You Know ... ?

For frequency inputs of 0-100 Hz or greater, select the Api 7580G which is field rangeable up to 0-30 KHz.