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

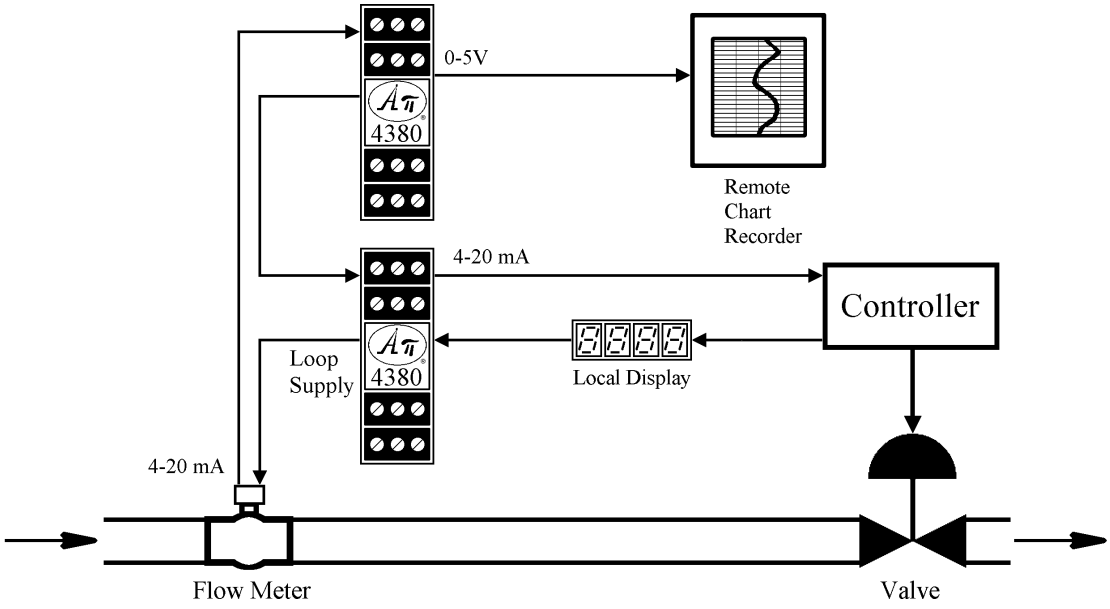
CONTROLLING AND MONITORING LIQUID FLOW FROM A SINGLE FLOW METER

PROBLEM:

A process requires a controlled flow rate of a liquid with a local display of that flow rate and also a chart of the flow rate for record keeping purposes.

SOLUTION:

A single flow meter can be utilized for control and monitoring of flow rate if appropriate signal conditioning is provided. In this example, the local display and the flow controller require a 4-20 mADC signal, while the remote chart recorder requires a 0-5 VDC signal.



The flow meter is connected to a pair of Api Model 4380DIN Isolated, Field Ranging DC to DC Isolators. The first Api 4380DIN provides loop power for the flow meter from its built-in loop excitation supply, and its 4-20 mADC output drives both the local display and the flow controller. The second Api 4380DIN converts the 4-20 mADC signal from the flow meter to a 0-5 VDC signal which is sent to the remotely located chart recorder.

Did You Know ... ?

The Api 4380DIN is available with a 9 - 30 VDC power supply. Specify API 4380 DD.