

Absolute Process Instruments, Inc.

Manufacturer of Quality Signal Conditioners Transmitters & Isolators

Application Notes

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

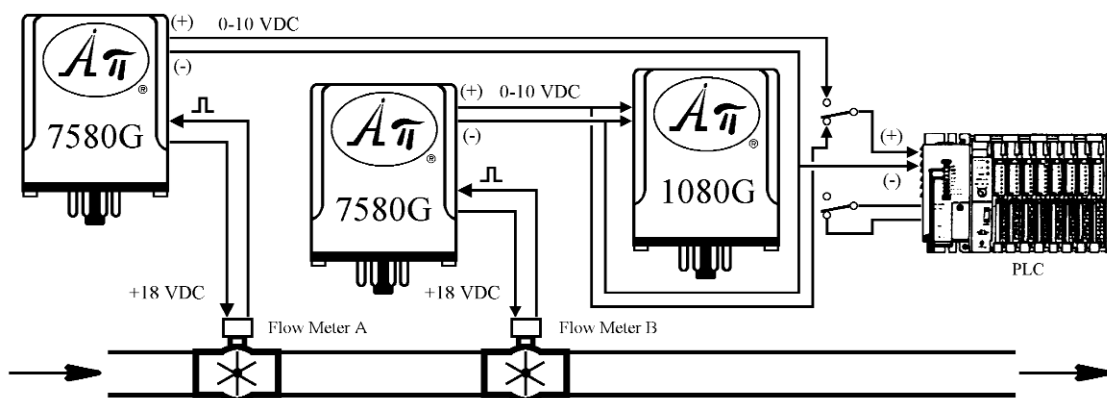
Auto-Ranging Flow Meter

PROBLEM

A flow in a process must be accurately measured throughout a wide range. The flow rate is used by a PLC to control the process. Two flow meters are utilized, one very accurate at low flow and one very accurate at high flow. A means for automatic selection of the appropriate flow meter is required.

SOLUTION

An **API 7580 G** Field Selectable Isolated Frequency to DC Transmitter module is used with each flow meter to convert the frequency output to a 0-10 VDC signal proportional to flow. An **API 1080 G** DC Input, Wide Ranging, Field Selectable Single Alarm Trip module monitors the flow rate and transfers the PLC analog input to the flow meter appropriate for that range.



The second set of relay contacts of the **API 1080 G** provides a PLC binary input with a closure to indicate which flow meter is selected.

Did You Know...?

Api isolated transmitters have 2000 volt input, output and power isolation and are covered by a LIFETIME WARRANTY.

FREE APPLICATION ASSISTANCE
 Call **Customer Service**
800-942-0315