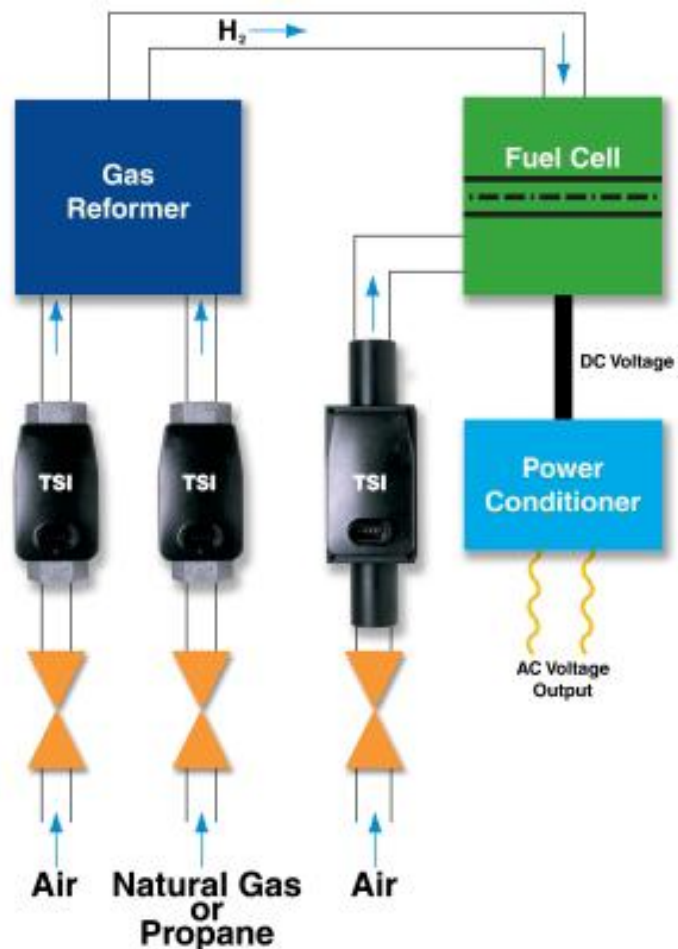


MEASURING AIR AND FUEL GASES WITHIN FUEL CELL SYSTEMS WITH TSI[®] MASS FLOWMETERS

APPLICATION NOTE FLOW-007

TSI mass flowmeters are ideally suited for measuring air and fuel gases within fuel cell systems. For metering the input to a gas reformer or air to the fuel cell stack, TSI flowmeters provide fast, accurate feedback to a pump or valve control circuit for precise gas delivery. Real-time monitoring of gas flows is achieved through either an analog 4-20 mA current signal or RS485 digital interface. The low-pressure drop feature minimizes back-pressure on the pump which ultimately reduces the pump size requirements. TSI flow sensors are designed with rugged die-cast aluminum housings and incorporate a hermetically sealed cover to prevent moisture from contacting the electronics.



Feature

- Low Pressure Drop*
- Accurate flow measurement*
- UL Recognized for fuel gas delivery*
- Fully temperature compensated*
- Light-weight, rugged, and sealed housing*

Benefit

- Minimizes pump power requirements*
- No calibration required by the end-user*
- Safe for use in measuring methane and propane*
- Accurate over a wide range of temperatures*
- Highly reliable in demanding environments*





UNDERSTANDING, ACCELERATED

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