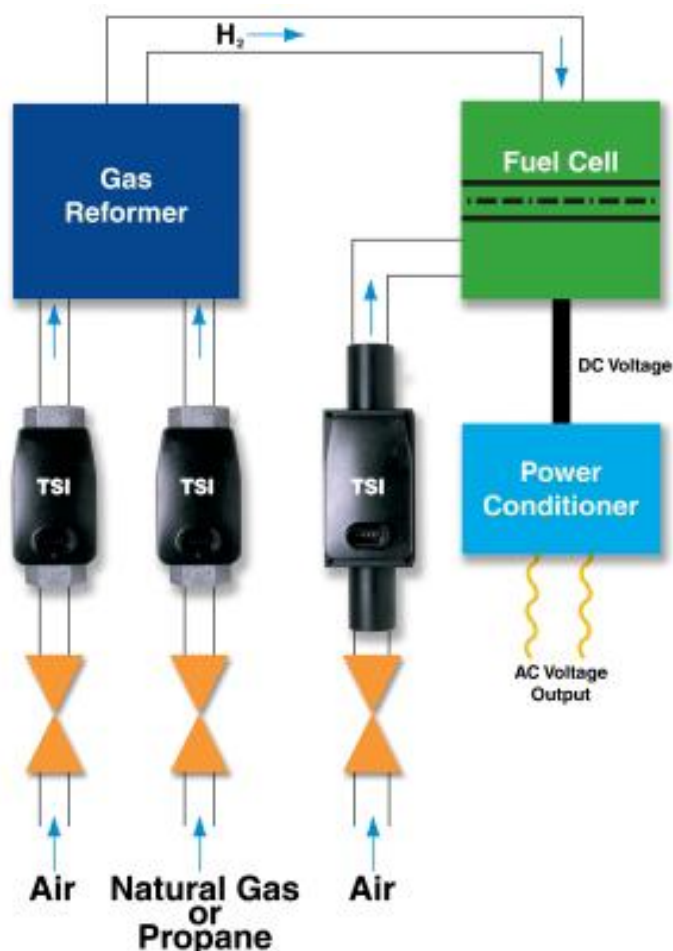


# MEASURING AIR AND FUEL GASES WITHIN FUEL CELL SYSTEMS WITH TSI<sup>®</sup> MASS FLOWMETERS

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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