MASS FLOWMETERS

Models 111, 112, 113 and 114 Mass Flowmeters, working on the same operating principles as the Mass Flow Controllers, are available in any flow range between 0-5 sccm and 0-1000 slpm N_2. Performance and electrical specifications are shown on page five.

MODEL 112

MASS FLOW CONTROL VALVES

Models 001, 002 and 003A Mass Flow Control Valves are normally-closed, proportional control valves, handling 0-5 sccm to 0-500 slpm N_2 flow rates. When coupled with a Mass Flowmeter, a closed-loop control system is achieved which permits separate component (flowmeter and control valve) configuration.

MODEL 002

MODELS CM2, CM4 AND PCIM4

MODEL PCIM4

Porter Instrument's Models CM2, CM4 and PCIM4 Interface Modules are designed for use with Porter's Mass Flowmeters and Flow Controllers. Models CM2 (two-channel), CM4 (four-channel) and PCIM4 (four-channel) provide operating voltages, setpoint control (for flow controllers), and an LED display. Both process flow rates and channel setpoints are indicated on the display as a percentage of full scale. Setpoints are adjustable to any value in the range using the 10-turn adjustment controls.

All three models feature the Automatic Proportional Tracking (APT) mode. APT operation permits controlling the flow rate in one or more channels as a fixed ratio of the flow rate in a reference channel, and allows the slave (secondary) channel(s) to track any change in the reference channel flow rate. Additionally, the Model PCIM4 includes Porter's exclusive COM-LINK feature, a two-way computer interface communicating link.

SPECIFICATIONS

CM2 (2-channel)
CM4 (4-channel)
PCIM4 (4-channel)

Inputs:

0-5 Vdc flow signal from flowmeter/flow controller (one per channel)

0-5 Vdc remotely-generated setpoint (one per channel) from computer or other control source (Model PCIM4 only)

Optically-isolated COM-LINK activation (Model PCIM4 only)

Outputs:

0-5 Vdc setpoint (one per channel), adjustable with front panel-mounted 10-turn potentiometer

0-5 Vdc flow signal (one per channel) for operation of external data acquisition equipment.

± 15 Vdc operating voltages (one set per channel) for powering flowmeter/flow controller

Power Requirements:

117 Vac ± 10%, 50 to 60 Hz, 50 watts

Dimensions:

8.5"W x 4.875"H x 9.75"D

Specifications subject to change.