

PRODUCT DESCRIPTION

Porter Instrument Interface Modules Models CM2 and CM4 are designed for use with all Porter Instrument Series 100 and 200 Mass Flowmeters (MFM's) and Mass Flow Controllers (MFC's). Model CM2 employs two channels which accept flow signal inputs and provides setpoint control for each channel. Model CM4 includes four input channels and likewise has a setpoint control for each channel. Process flow rates for all channels are displayed on a large, bright, red digital panel meter as a percentage of full scale (F.S.). The range of this meter is from 000.0 to 102.4 percent. Setpoints for any channel may also be displayed on the panel meter in the same percentage of full scale flow units. Setpoints are adjustable to any value in the previously stated range using the 10-turn adjustment controls.

Control action occurs when the process flow value in a given channel matches its respective setpoint. Both instruments also feature Automatic Proportional Tracking (APT) Mode operation. APT operation permits setting the flow rate control in one or more channels to be a fixed ratio of the flow rate control in a reference channel, regardless of the process flow rate in that reference channel.

Models CM2 and CM4 are completely self-contained with internal modular construction and have been designed with the latest high technology microcircuits. Although they are multi-featured instruments, their operation is extremely simple.

Specifications

Function: Processes 0 to 5 Vdc flow signal inputs from Series 100 and 200 MFM's and MFC's to provide readout in percentage of F.S. and, for MFC's, setpoint control action.

Inputs: Model CM2: 2 Channels
Model CM4: 4 Channels

Inputs (flow signal line plus common) enter instrument via connectors CH1, CH2, CH3 and CH4 on rear panel.

Setpoints: One setpoint per channel, adjustable from 0 to 102.4% F.S. with 10-turn control.

Display: Bright, red, 3-1/2 digit (0.56 in. high) read-out with 0.1% resolution.

Auxiliary (AUX) Outputs: Available at rear panel via AUX connector for operation of external meters, recorders, etc.

Automatic Proportional Tracking (APT) Control: Control switches located on rear panel permit fixed internal reference for all setpoint channels or selected signal references for all setpoint channels except Channel 1.

Power Requirements: 117 VAC \pm 10%, 50 to 60 Hz, 50 watts max. Line fuse (rear panel) is rated at 1/2A. Slo-Blo.

Dimensions: 8-1/2"W x 4-7/8"H x 9 3/4"D

Weight: Model CM2: 6 lbs.
Model CM4: 6 lbs.