

IE Mass Flow Secondary Electronics

MASS FLOWMETERS & CONTROLLERS

Description

IE Model 5896 Mass Flow Secondary Electronics powers, controls and indicates the flow rate of a single mass flow controller. The unit contains a dc power supply, an LED indicator and a command set-point potentiometer. The 3-1/2 digit LED indicator is adjustable to display flow as a percentage of maximum flow or in engineering units. The multi-turn potentiometer has a turns counter for accurately setting the flow command.



Design Features

- Panel mounting enclosure
- Field adjustable LED display in percent or engineering units
- Compatible with all IE mass flow controllers
- Remote output

Specifications

Caution: Do not operate this instrument in excess of the specifications listed below. Digital Indicator 3-1/2 digit LED, percentage or fulls scale or engineering units. Display Range 0.200 to 1999 with selectable decimal location. Display flashes to indicate overrange.

Accuracy

+0.5% +LSD Temperature Range - Ambient 0 to 50°C Power Input 220 Vac, 50 Hz (Standard). 115 Vac, 60 Hz (Optional) Power Output +15 Vdc +5% 300 mA - 15 Vdc +5% 300 mA Singal Inputs 0-5 Vdc flow signal from mass flow controller +5 Vdc reference Connections 15 pin sub-miniature 'D' connector for flow controller 3 pin ac power (2 meter power cord supplied) Command Potentiometer 10 turns with turns counter. 2,000 ohms +0.25% linearity, 0.1% resolution

Principle Of Operation

The 5896 provides dc power, a command signal to a single mass flow controller, and accepts the flow output signal for display. The power supply accepts 220/115 Vac and produces +15 Vdc to power the mass flow controller. The 0-5 Vdc command signal can be generated from the mass flow controllers 5 Vdc reference and the potentiometer on the 5896. The flow signal drives the LED display. The LED display is field adjustable to report flow rate in percent of full scale or engineering units.

Ordering Information

- Meter size
- Liner material
- Electrode material
- Pressure and temperature requirements (ambient and process)
- Flow rate (normal, maximum, minimum)
- Electrical requirements
- output(s) required
- Liquid to be metered (name, conductivity)
- Meter orientation (horizontal or vertical)
- Accessories required Specifications subject to change without any notice. Model 5896 Mass Flow Secondary Electronics