

Mass Flow Secondary Electronics

Model 36E

Model 36E Series secondary electronics are designed to provide power, readout and control for Model 36A Mass Flow Controllers. In addition to these basic functions, features include resettable totalization, display of flowrate in engineering units, remote setpoint control and RS232 communications (optional with Model 36E-1). All of this is provided in a compact tabletop package with LCD display.

Models 36E-2 and 36E-4 can be operated with independent mass flow control channels, where flowrate is set through the setpoint push buttons, or with one or more channels slaved to the master (blending mode). Valve override functions are selectable. In valve override mode, the valve will be opened/closed independent of setpoint value. A RS-232 port is provided standard to control the Models 36E-2 and 36E-4 from a PC. This port enables connection of up to 4 analog or analog configured devices to a Model 36E-4. Local function is useful as backup of the customer's system configuration.



Benefits/Features

Provide power supply, readout and control functions.

Tabletop housing.

Display of flowrate in engineering units.

Resettable total in engineering units.

Front panel or remote valve override.

RS-232 communications (optional with Model 36E-1).

Multi-Channel Units (36E-2 and 36E-4):

- Programmable for setpoint selection, blending and local/remote control.

- High/low alarm selection.

- Remote I/O feature allows control from external system.

Specifications

Dimensions (H x W x D):

36E-1: 10.7" x 4.2" x 9.6"
(272 mm x 107 mm x 244 mm)

36E-2: 10.1" x 5.8" x 10.3"
(257 mm x 147 mm x 263 mm)

36E-4: 10.1" x 5.8" x 10.3"
(257 mm x 147 mm x 263 mm)

Certification: CE

Power Input: 110 Vac, 60 Hz/220 Vac, 60 Hz
(Model 36E-1 set via internal switch)

Power Output:

36E-1: +15 V/350mA, -15V/350 mA

36E-2, 36E-4: +15 V/2.9 A, -15V/1.4 A max.

Signal Input: 0-5 VDC (flowrate signal from flow controller)

Signal Output:

36E-1: 0-5 VDC isolated transmission.

Resolution: 10 bits

Accuracy: <0.1%

36E-2, 36E-4: 0-5 VDC, Impedance 1 kW
(minimum) or Impedance 750W (maximum)

Electrical:

36E-2, 36E-4:

Two or four 15-pin D connectors for connecting the mass flow controller.

One 25-pin D connector for combined remote setpoint input and output signal, up to 4 channels.

One 15-pin D connector for connecting remote valve override control function.

Display Reading:

36E-1: 6 digit LCD, 0.7" high digits

36E-2: 2x 20 character display with back lighting.

36E-4: 4x 20 character display with back lighting.

Controls: Membrane push buttons

Enclosure:

36E-1: Polycarbonate facial and bezels with an extruded aluminum case

36E-2, 36E-4: Anodized aluminum and steel cover

Ambient Temperature: 32°F to 122°F
(0°C to 50°C)

Model Number	Description
Q2-36E-1	1-Channel
Q2-36E-2	2-Channel
Q2-36E-4	4-Channel

Connecting Cable Model 36A and Model 36E

For Model 36A Series mass flow controller and Model 36E secondary electronics.

Model Number	Description
Q2-36CD-10	10' (3 m)
Q2-36CD-25	25' (8 m)
Q2-36CD-50	50' (15 m)