

NOTE:

Many menu items are not covered in this Quick Start Guide. For further menu details, please see the eFlo 2.0 User Manual ([www.supersystems.com/eflo2/](http://www.supersystems.com/eflo2/))

Wire the unit as indicated in the table below.

Wire-In Color	Signal Type	Description
Red	+ VDC	Power supply (24VDC @ 750 mA)
Black	-VDC	
Green/Black Stripe	+RS485	Communications signal provided by modbus over serial
Red/Black Stripe	-RS485	
White/Black Stripe	RLY	Normally open relay contact (24 VDC)
Orange/Black Stripe	RLY	
Orange	+ mA	Analog out - output flow signal (4-20 mA)
Blue	- mA	
Green	+ mA	Analog in - input setpoint signal (4-20 mA)
White	- mA	



If communicating via RS485, set modbus address as follows:

- Press to enter the Setup menu.
- Press to enter the Serial Communications menu.
- Enter desired Modbus address.

If using ethernet communication, the default IP address is 192.168.1.200

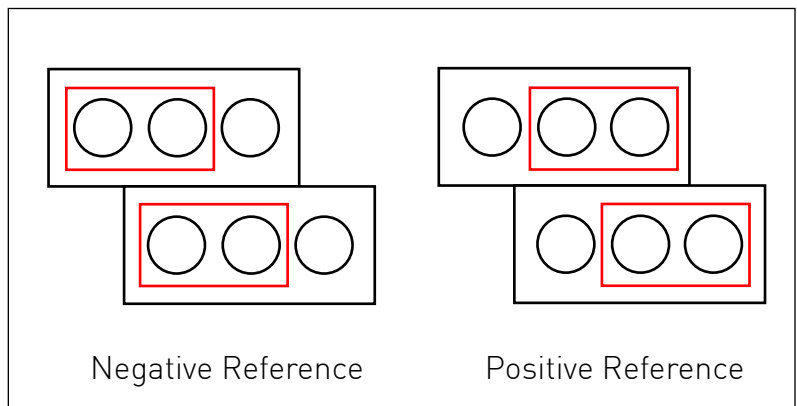
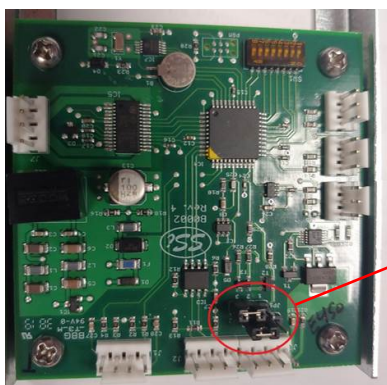
If a different IP address is required, press to enter the Setup menu.

- Press to enter the Ethernet Configuration menu.
- Enter desired configuration.

If the eFlo is being controlled by Analog Input from an SSi 92xx controller, the jumpers on the eFlo main board MUST be modified to accomodate the common positive output of the controller.

By default, the jumpers are set for negative reference. If positive reference is required, modify the jumper locations as shown below.

NOTE: The main board is the square circuit board mounted directly to the flow meter body.




1 Menu  
 2 Electrical Connections  
 3 RS485  
 4 Ethernet  
 5 Jumpers (Analog Input Only)

eFlo 2.0 can operate in Flow mode or Valve mode (options not available with Manual meters).

**Flow mode** refers to standard control based on a specific flow setpoint for use with standard gases (N<sub>2</sub>, Endo, NH<sub>3</sub>, etc.)

**Valve mode** refers to valve position control based on % output for carbon control gases (natural gas, propane, air, etc.)

To set control mode, press  to enter the Setup menu.


Press  to enter the Basic Configuration menu.

Change control mode to "Valve."

SSi recommends all flow meters have a zero tare performed for optimal accuracy and control and to equalize the output signal of the differential sensor.


If control is unstable or false flow values are indicated when it has been verified that no gas is passing through the meter, a zero tare may be required.

To perform a zero tare:

Apply gas pressure to the flow meter. Press  to enter the Setup menu.

Press  to enter the Process Variables menu.

Hold  for two seconds to enter manual mode.

Fully close the motor valve by holding the down arrow until the motor drive icon displays .


Press  to complete the zero tare. Hold  to return to auto mode.

If the meter will be used in Valve mode, a max tare MUST be performed to set the max valve position.

To perform a max tare:

Apply gas pressure to the flow meter. Press  to enter the Setup menu.


Press  to enter the Process Variables menu.

Hold  for two seconds to enter manual mode.

Hold the Up Arrow until desired max flow is displayed.

Press  to complete the zero tare. Hold  to return to auto mode.

Variations in altitude can impact the overall accuracy of the meter. To perform altitude compensation:

Press  to enter the Setup menu.

Press  to enter the Basic Configuration menu.

Set altitude to desired level IN FEET.

For additional information, troubleshooting, or other help, see the eFlo 2.0 Quick Reference Guide, the eFlo 2.0 Operations Manual, or contact SSi at 513.772.0060.