

NOTE:


Several steps in this Quick Start Guide require navigating the eFlo 2.0 menus. For instructions on menu navigation, please see the Quick Reference Guide.



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:

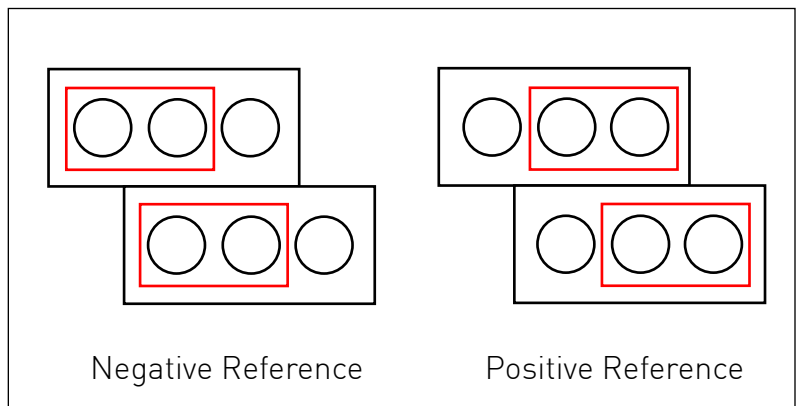
Enter the setup menu and navigate to **P420**
 Enter the desired modbus address.
 Press  to save.

If using ethernet communication, the default IP address is 192.168.1.200
 If a different IP address is required, please see the eFlo 2.0 Manual to change the address.

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 (N₂, Endo, NH₃, etc.)

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


To set control mode, enter the Setup menu and navigate to **P6.30**.
For Flow mode, set value to **0**. For Valve mode, set value to **1**.
Press  to save.

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:


With the meter in manual mode, drive the valve completely closed with pressure applied. When the "Close" light is no longer illuminated, the valve is completely closed.

Enter the Setup menu and navigate to **P6.10**.
Change the value to **1** and press  to save.

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:

With the meter in manual mode, drive the valve open to the desired max flow rate.
Enter the Setup menu and navigate to **P6.50**.
Change the value to **1** and press  to save.

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

Enter the Setup menu and navigate to **P6.60**.
Enter the actual altitude **IN FEET** for the installed location.
Press  to save.

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.