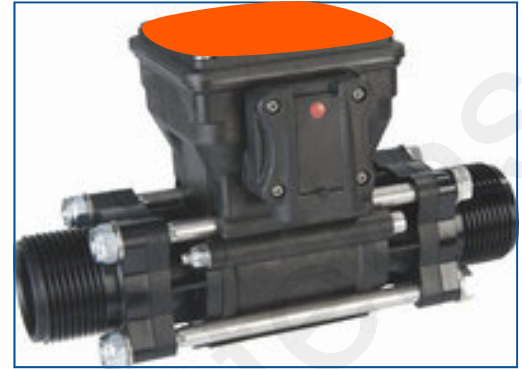




# 396-4132Y1

## SurePoint Electromagnetic Flowmeter Instruction Sheet



SurePoint Electromagnetic Flowmeters are used in many applications. This instruction sheet will explain how to connect the flowmeter to your wiring harness and how to setup the flowmeter calibration in your controller. Read through the options below to find the one that fits your situation.

### Option 1—Flowmeter is part of a complete SurePoint liquid system and you have a SurePoint operators manual written specifically for that control

#### Option 1 Electrical Connection

The harness you received with the complete liquid system will plug directly into the connector molded into the flowmeter body.

#### Option 1 Flow Calibration

Refer to the SurePoint complete operator's manual and /or quick start card you received. It will give you specific instructions on setting the calibration number for your flowmeter and controller.

### Option 2—Flowmeter is part of a complete SurePoint liquid system but you do NOT have a SurePoint operator's manual for the complete system.

#### Option 2 Electrical Connection

If you purchased SurePoint wiring harnesses, the flow connection should plug directly into the connector molded into the flowmeter body.

If you are using harnesses from another source or the controller manufacturer an adapter may be needed.

#### Option 1 Flow Calibration

The basic flow calibration numbers are provided in the chart below.

- Make sure your controller is asking for pulses per ONE gallon. Some controllers will ask for pulses per 10 gallons or some other unit.
- If your controller will not accept the full 4 or 5 digit flow cal number a divide by cable will be needed to reduce the pulses.

Orange Label Flowmeter Calibration

Minimum flow	Maximum flow	Flow Cal Number
GPM	GPM	(Pulses/Gal)
0.08	1.6	22710
0.13	2.6	3000
0.3	5	3000
0.6	13	2000
1.3	26	2000
2.6	53	2000

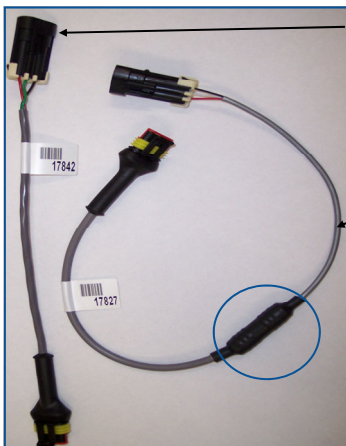


## Option 3—Flowmeter is replacing an older SurePoint Electromagnetic flowmeter with the blue label shown at right.

### Option 3 Electrical Connection

The blue label flowmeter has a 3-pin MP 150 connector on a pigtail. Although similar in appearance, this connector will NOT plug into the new orange label flowmeter.

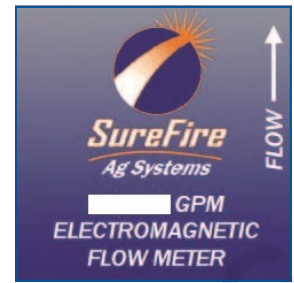
The standard adapter to use is a 201-17842 3-pin MP to AMP Superseal Connector. The divide by 8 adapter 201-17827 must be used in applications where the controller will not accept as high of a flow cal number as is required (typically in settings where a flow cal for 10 gal (or L) is required). It must be used because the given controller limits the maximum calibration number.



**201-17842** 3-pin MP to AMP Superseal Connector

**201-17827** 3-pin MP to AMP Superseal Connector with Divide-by-8 module

The 'Divide by 8' module is circled.



### Option 3 Flow Calibration

The blue label flowmeter has the exact same standard calibration numbers as the newer orange label flowmeter. No change should be necessary. SurePoint always recommend you run a catch test to verify the new flowmeter is calibrated and installed correctly before field use.

### Orange Label Flowmeter Calibration

Minimum flow	Maximum flow	Flow Cal Number
GPM	GPM	(Pulses/Gal)
0.08	1.6	22710
0.13	2.6	3000
0.3	5	3000
0.6	13	2000
1.3	26	2000
2.6	53	2000

## Option 4—Flowmeter is replacing an older SurePoint Electromagnetic flowmeter with the white label shown at right.

### Option 4 Electrical Connection

The white label flowmeter has the same 3-pin Superseal connector as the orange label meter. The only difference is the white meter connector is on a 6" pigtail where the newer orange label connector is molded into the body. The wiring connector you used on the white meter will plug directly into the new orange meter; no additional adapter is required.

With a white label flowmeter you probably already have one of the above adapters (201-17842 or 201-17827). Note which adapter you have for determining the proper flow calibration number.

### Option 4 Flow Calibration

The white label flowmeter has different calibration numbers than newer orange label flowmeter. **CHANGING THE FLOW CALIBRATION NUMBER IN YOUR CONTROLLER WILL ABSOLUTELY BE REQUIRED. IF NOT CHANGED, THE WRONG GALLONS WILL BE DISPENSED.**

- If you have adapter 201-17842, enter the flow cal number from the orange label flow cal chart.
- If you have adapter 201-17827 (with divide by 8), divide the flow cal number from the chart by 8 and enter that number. For example, if the chart says 3000, enter 375 (3000÷8).

