Dwyer®

SPPM Smart Programmable Panel Meter

Fully Field Configurable, 16-Bit Color Touch Screen Display

CE RoHS

Con doppio allarme

3 [76.45]

2-3/8 [60.44]

1-29/32 [48.26]

1/2 [12.45]

15/16 [23.62]

9/32 [7.11]

23/32 [18.29]

1-11/16 [42.55]

1/16 [1.52]

21/32 [16.51]

SPPM-24 and SPPM-24-C

3-17/32 [89.51]
3-1/2 [89.10]

2-9/32 [57.60]

1-11/16 [43.22]

2-1/4 [56.80]

19/32 [15.19]

1/4 [6.71]

29/32 [23.40]

5/32 [3.90]

3/8 [9.80]

19/32 [15.20]

3/4 [19.06]

5/16 [7.70]

1-3/8 [35.12]

9/16 [14.00]

3-5/16 [84.10]

2-1/8 [53.81]

3/16 [5.07]

1/16 [1.90]

11/16 [17.80]

SPPM-28 and SPPM-28-C

3-25/32 [96.00]

3-1/2 [88.85]

3-3/32 [78.50]

5/8 [16.16]

29/32 [23.30]

27/32 [21.26]

31/32 [24.81]

2-5/32 [55.01]

3/32 [2.70]

23/32 [17.95]

SPPM-35 and SPPM-35-C

The Series SPPM Smart Programmable Panel Meter is a configurable, full-color touch-screen display that can be used in a variety of applications. Utilizing a USB connection, the panel meter can be configured with downloadable software, using any computer running Windows® based software. Available with either a 2.4″, 2.8″ or 3.5″ screen that features remarkable graphics that can easily be customized to read and/or graph pressure, temperature, humidity, gas concentration, or many other parameters. Up to two transmitters or transducers can feed the panel meter's user scalable inputs (voltage models only).

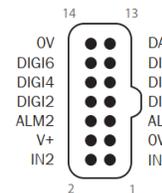| Model	Description	Input
SPPM-24	Smart Programmable Panel Meter with 2.4″ display	Voltage
SPPM-28	Smart Programmable Panel Meter with 2.8″ display	Voltage
SPPM-35	Smart Programmable Panel Meter with 3.5″ display	Voltage
SPPM-24-C	Smart Programmable Panel Meter with 2.4″ display	Current
SPPM-28-C	Smart Programmable Panel Meter with 2.8″ display	Current
SPPM-35-C	Smart Programmable Panel Meter with 3.5″ display	Current

ACCESSORY
A-SPPM-TC, Thermocouple Input Board (not CE approved)
SPPM-CA, Mini USB to full USB cable
SPPM-HSG24, 2.4″ Display Housing
SPPM-HSG28, 2.8″ Display Housing
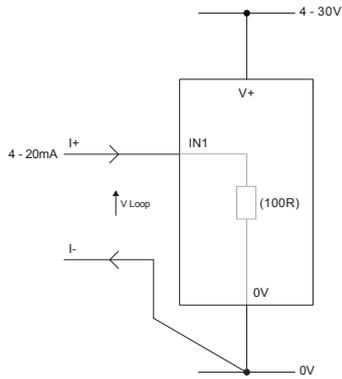Additional configurations available via online software.

SPECIFICATIONS
Inputs: Current: 0 to 50 mA, scalable (factory set from 4 to 20 mA); Voltage: 0 to 40 VDC, scalable (factory set from 0 to 10 V).
Accuracy: 0.1%.
Resolution: 0.3 to 9.8 mV (depending on input range).
Power Supply: 4 to 30 VDC max or via USB.
Current Consumption: 190 mA max.
Display: 2.4″, 2.8″ or 3.5″ TFT full color touch screen.
Display Resolution: 320 x 240 pixels.
Sampling Rate: 3 samples/s.
Temperature Limits: 32 to 104°F (0 to 40°C).
Warm Up: 30 s.
Mounting: Panel mount.
Electrical Connection: Screw terminals, pin connection, or USB.
Software Requirements: Compatible with Windows® XP, Windows® 2000, Windows® 7 and Windows Vista®.
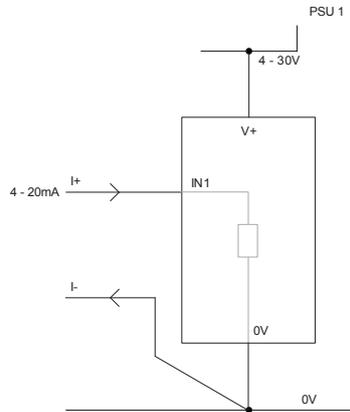**Weight:** 2.8 oz (79.4 g).
Approvals: CE, RoHS.

	14	13	
0V			DAC1
DIGI6			DIGI5
DIGI4			DIGI3
DIGI2			DIGI1
ALM2			ALM1
V+			0V
IN2			IN1
	2	1	

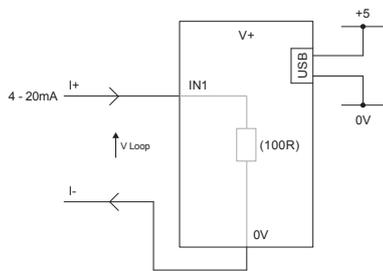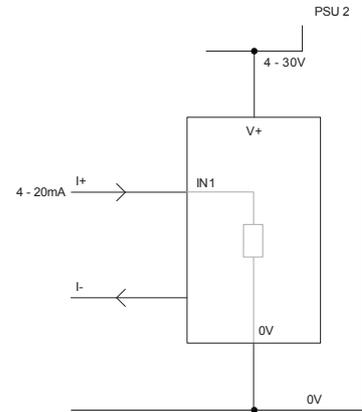**Sample Programmable Display Configurations**

Various Operating Modes

MEASURING 4-20mA

Power supply to meter must be fully floating
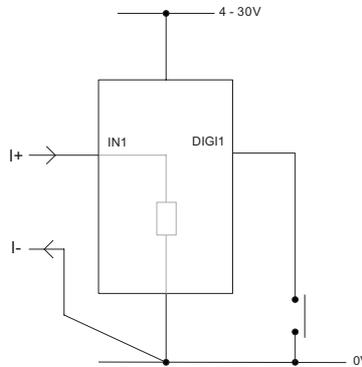(isolated from the 4-20mA current loop)

USING TWO SGD DISPLAYS IN SAME INSTALLATION

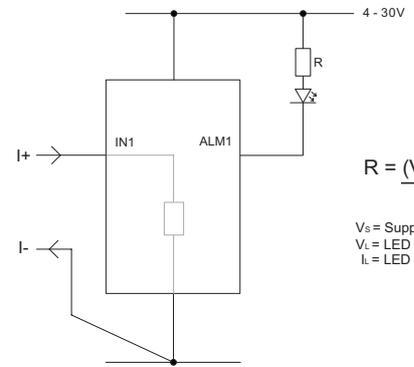Each SGD must be powered from a seperate,
fully floating, power supply

**MEASURING 4-20mA
USING A USB POWER SUPPLY**

DIGITAL HOLD

DIGI1 will hold the display

ALARM OUTPUT

$$R = \frac{(V_S - V_L)}{I_L}$$

V_S = Supply voltage
V_L = LED Voltage drop
I_L = LED current

Applications that feature an alarm can be connected as above.
ALM1 must not sink more than 10mA maximum each. If supply
voltage varies, use an appropriate voltage regulator.