SERIES SPPM2 | GRAPHICAL USER INTERFACE PANEL METER

FEATURES/BENEFITS

- **Large 4.3˝ touch screen display can be powered from USB or 5 to 30 VDC supply**
- **Free design software allows users to drag and drop elements onto the screen to quickly develop their specific interface**
- **Accepts up to 4 analog inputs, 8 digital I/O, 4 PWM outputs, and 2 open collector alarm outputs**

APPLICATIONS

- Lift station pump control
- Room condition monitoring display
- Walk-in refrigeration/freezer control

DESCRIPTION

The **SERIES SPPM2** Graphical User Interface Panel Meter is a configurable, full-color 4.3˝ (109 mm) touch screen display that can be used in a variety of applications. By using the free Windows® based Interface Panel Design Studio software, users can personalize the display with buttons, switches, and analog and digital scales to suit their needs. A development kit is also available, which includes a development board with buttons, dials, LEDs, and screw terminals to test the functionality of all inputs and outputs.
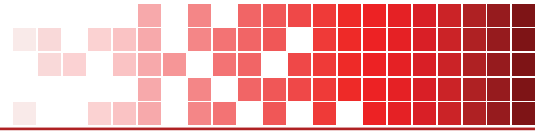
DISPLAY SPECIFICATIONS

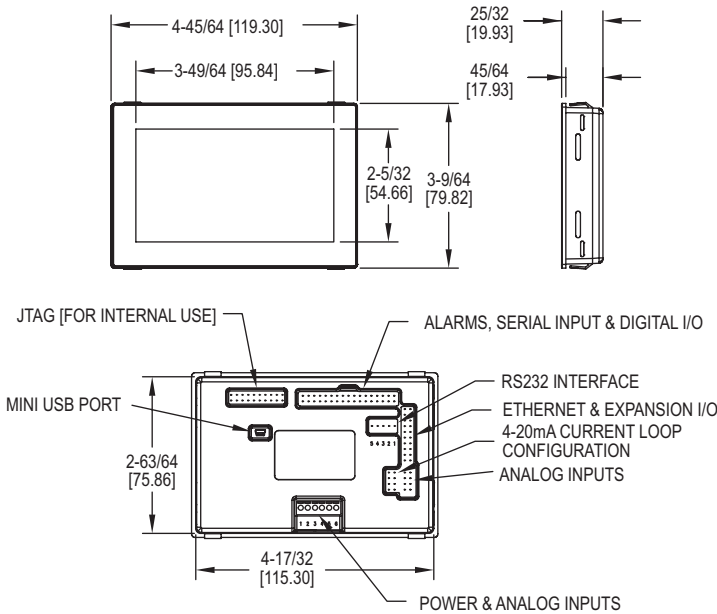|	
Inputs	Mini-USB, 6-line screw terminal analog, 4 x ±40 V, or 4 to 20 mA, 8 x digital I/O.
Outputs	4 x PWM, 2 x alarms (open collector).
Accuracy	±0.05% ±0.1 mV (typ).
Resolution	0.04 mV (max) or 4 decimal places.
Power Supply	USB port or 5 to 30 VDC.
Current Consumption	400 mA at 5 VDC.
Display	4.3˝ (10.9 cm) TFT LCD with 262k colors.
Display Resolution	480 x 272 pixels.
Sampling Rate	10 samples/s.
Temperature Limits	32 to 104°F (0 to 40°C).
Warm Up	15 sec.
Mounting	Panel mount.
Electrical Connections	Multi-pin DIL's, 1 mini-USB, and 1 RS232.
Computer Requirements	Compatible with Windows® 7, Windows® 8 and Windows® 10.
Weight	6.7 oz (181 g).
Agency Approvals	CE.

DEVELOPMENT BOARD SPECIFICATIONS

Inputs	4 x ±5 VDC.
Outputs	8 x digital I/O, 4 x PWM.
Serial Communications	RS232.
Power Supply	USB port or 5 to 30 VDC.
Weight	19.7 oz (560 g).

DIMENSIONS

4-45/64 [119.30]

3-49/64 [95.84]

25/32 [19.93]

45/64 [17.93]

2-5/32 [54.66]

3-9/64 [79.82]

JTAG [FOR INTERNAL USE]

ALARMS, SERIAL INPUT & DIGITAL I/O

MINI USB PORT

RS232 INTERFACE

ETHERNET & EXPANSION I/O
4-20mA CURRENT LOOP CONFIGURATION
ANALOG INPUTS

2-63/64 [75.86]

4-17/32 [115.30]

POWER & ANALOG INPUTS

WIRING DIAGRAM
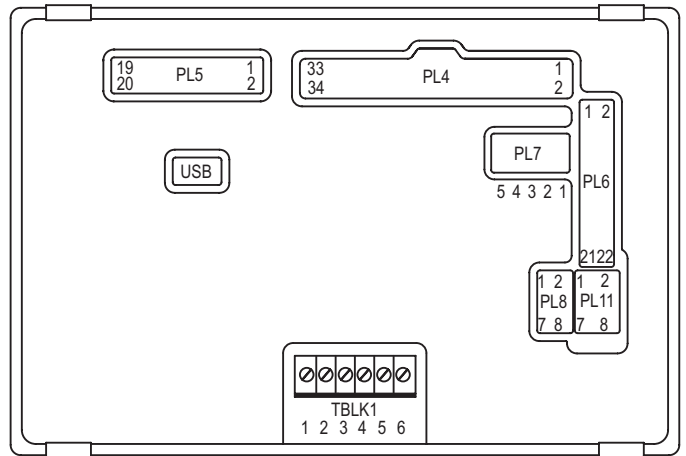
TBLK1: POWER & ANALOG INPUTS*	
PIN Number	Function
1	Supply Voltage: V+
2	0 V
3	Analog Input 4 (IN4)
4	Analog Input 3 (IN3)
5	Analog Input 2 (IN2)
6	Analog Input 1 (IN1)
*Input information for PL4, PL5, PL6, PL7, PL8, and PL11 can be found in bulletin PC-SPPM2.	

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

SPPM2   **-43**   **-D**

SERIES

SPPM2 - Graphical user interface panel meter

CABLE TYPE

BLANK - No development kit
-D - Development kit included

DISPLAY RANGE

-43 - 4.3″ display
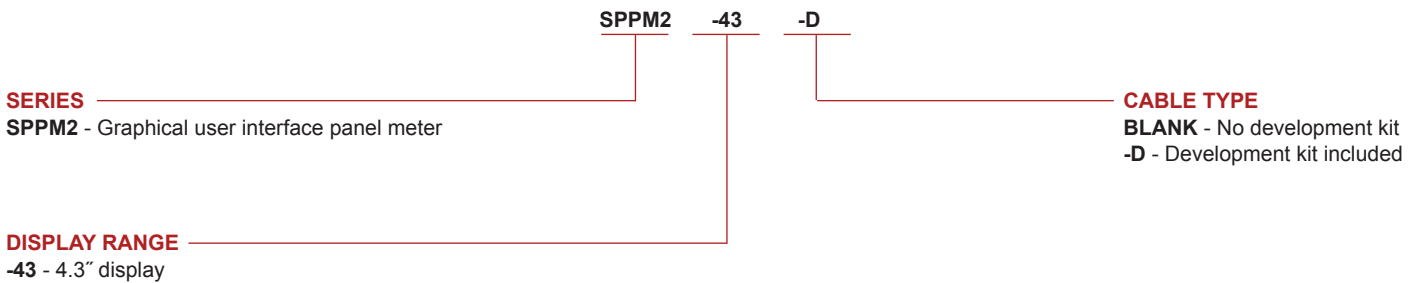
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