

User's Guide



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FMA2600-SP Accessory Set Point



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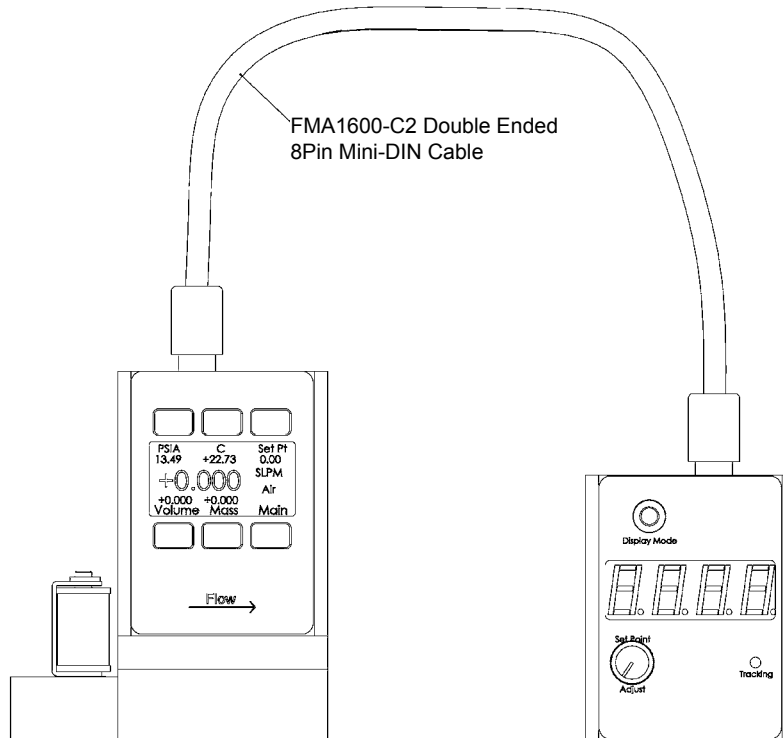
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The information contained in this document is believed to be correct, but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, patient-connected applications.

INTRODUCTION: The FMA2600-SP is designed to provide a simple method to adjust and monitor the set point to your flow controller. It utilizes a convenient one turn twist knob, a versatile LED display, and a set point tracking alarm LED in a simple remote mountable package.

The FMA2600-SP reads the actual output signal, and can display the output parameter as well as the set point.



Flow Controller connected to the FMA2600-SP using the Top Connector Socket
(this connection may also be made using the FMA2600-SP's Bottom Connector Socket)

CONNECTIONS: The FMA2600-SP requires a double ended FMA1600-C2 8 Pin Mini-DIN cable connected between either the top or the bottom connector socket of the FMA2600-SP and the connector socket on top of the controller. The two connector sockets on the FMA2600-SP are “pass through” connected so that the unused socket can be connected to a 8 Pin Mini-DIN single ended cable for connection of output signals and/or power. Appropriate power can be connected to either the FMA2600-SP or the controller, whichever is more convenient.

Pin	Function	Mini-DIN Cable Color
1	4-20mA Output Signal	Black
2	5.12 Vdc or Auxiliary Output	Brown
3	RS-232 Input Signal	Red
4	Set Point In	Orange
5	RS-232 Output Signal	Yellow
6	0-5 Vdc (or 0-10 Vdc) Output Signal	Green
7	Power In	Blue
8	Ground (common)	Purple

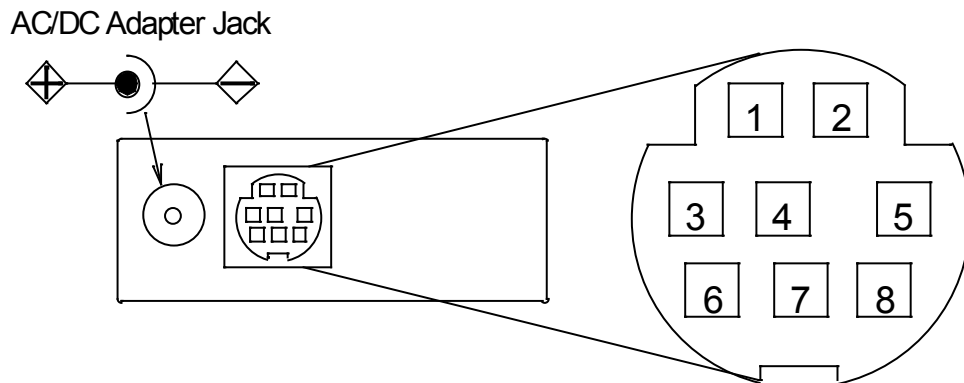
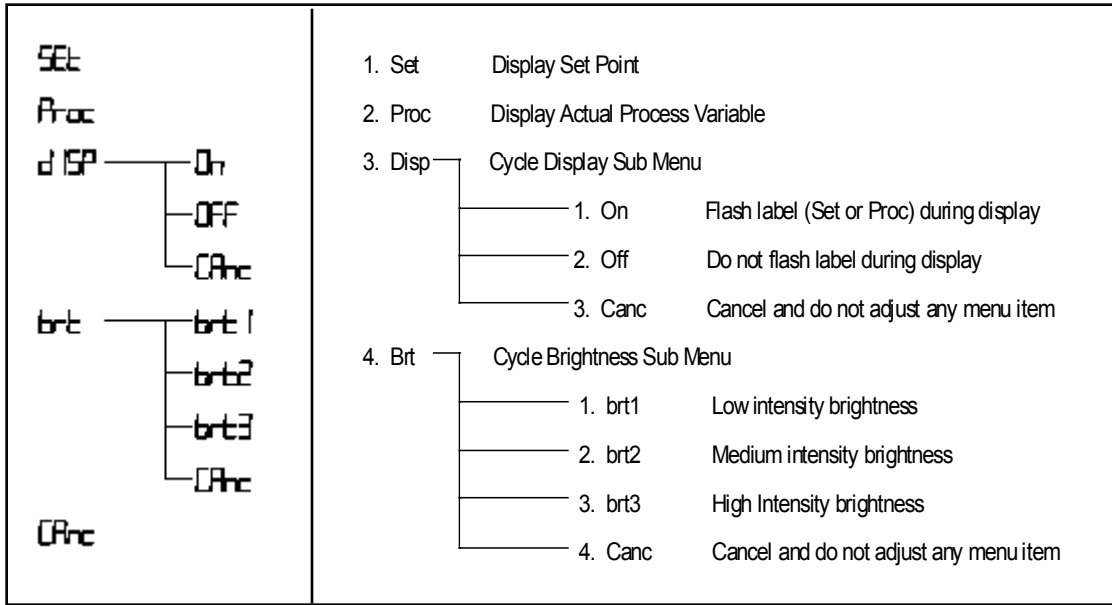


Figure 1. Pin Out Diagram

CAUTION: Do NOT connect power to pins 1 through 6 as permanent damage can occur!

OPERATION:

Display Mode Button: The FMA2600-SP display has several modes which are set via the Display Mode button. Pushing the button once will set the display menu cycle into operation. Pushing the button while the desired parameter is on the display will select that parameter. If the selected parameter has a sub menu, the sub menu will cycle until a menu item is selected by pushing the button while the sub menu item is on the display. Cycle rate is approximately 1 per second. The Display Mode menu is detailed below:



Display Mode Menu Diagram

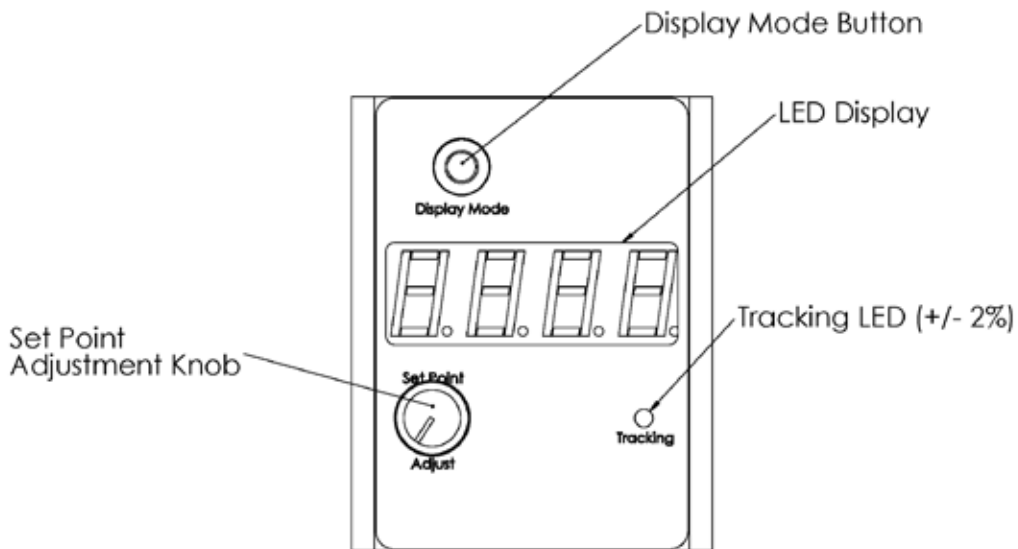


Figure 2. FMA2600-SP Features

Tracking LED: The tracking LED is intended to alert the user whenever the actual process variable deviates from the set point by more than 2% of full scale. The tracking LED is always on whenever the FMA2600-SP has power and operates as follows:

Green	Process variable is within +/- 2% of Set Point
Red	Process variable is not within +/- 2% of Set Point

It is common for the LED to show red during a change in set point. Another common cause is when there is not sufficient pressure or flow for the controller to match the set point.

MOUNTING: The FMA2600-SP has four holes in the back cover to facilitate mounting to any suitable convenient flat surface. Remove the back cover by removing the four back cover retaining screws as shown in Figure 3 below. The holes in the back cover are sized to clear 4-40 threaded screws, but other appropriate screws may be used.

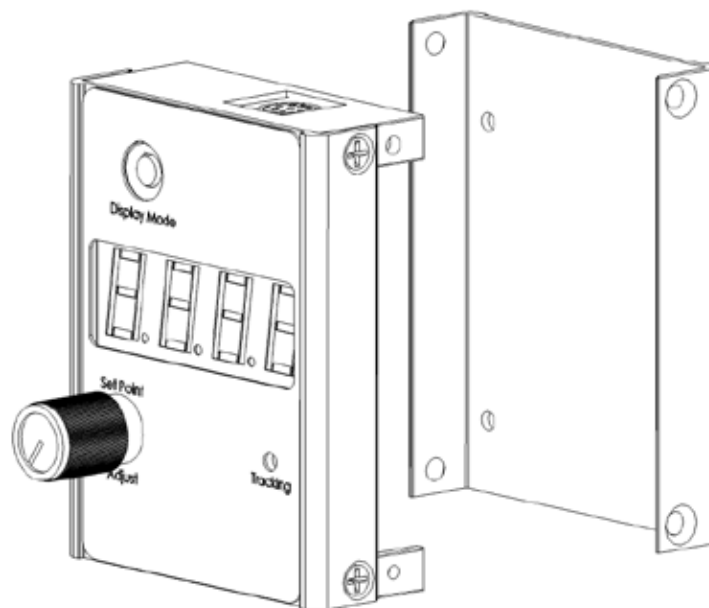


Figure 3. Removing the Back Cover for Mounting

To mount the FMA2600-SP, first mount the back cover with suitable screws, then re-assemble the FMA2600-SP with the four screws previously removed. A dimensional drawing of the back cover is also shown in Figure 4.

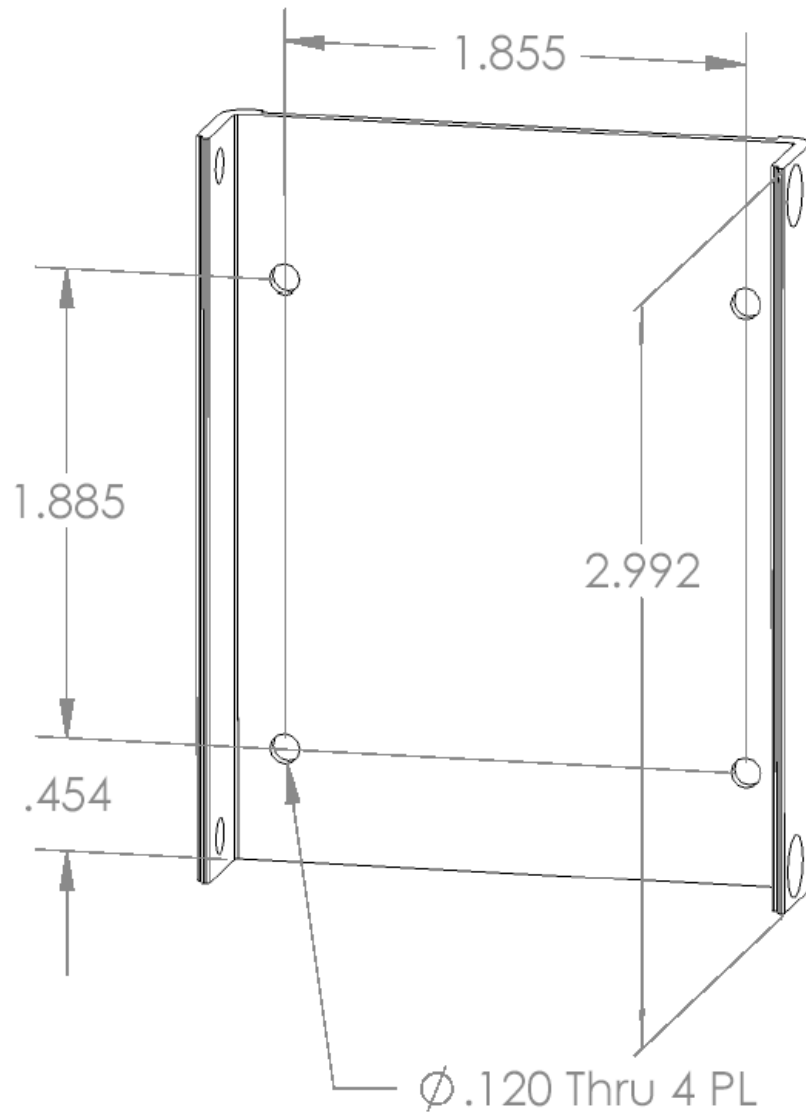


Figure 4. Back Cover Mounting Hole Pattern

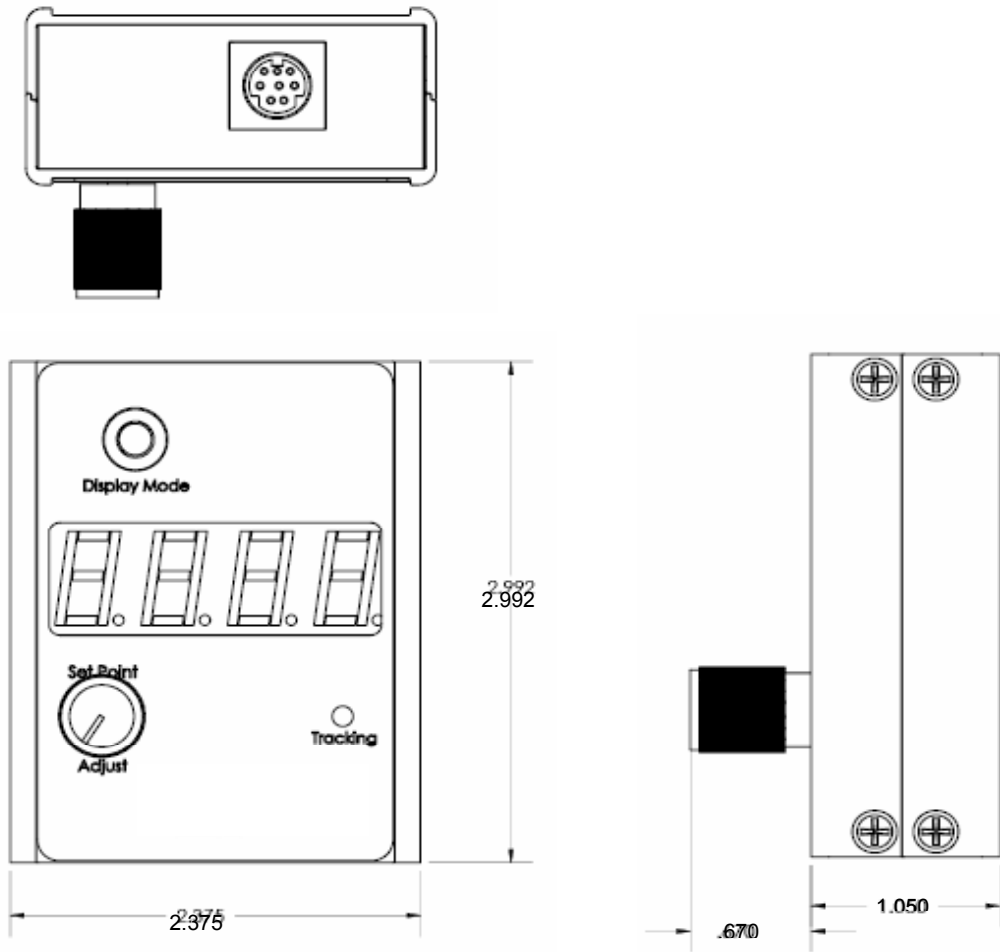


Figure 5. FMA2600-SP Dimensions



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OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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