1. Local Mount PanaFlow Z1G/Z2G

Remove the Components from the Shipping Container. The typical PanaFlow Z1G/Z2G system shown in Figure 1 includes the following items:

- 1 - Meter Body with Flanges (material list: WCB: LCB: CF8M: CD3MWCuN)
- 2 - Transmitter Electronics
- 3 - Magnetic Stylus (for Transmitter Keypad)
- 4 - Mounting Adapter, Transmitter (for local mount only)
- 5 - Transducers/Inserts

**Note:**
For Electrical Connections information See “Making the Electrical Connections” on page 2.

2. Remote Mount PanaFlow Z1G/Z2G

The typical Remote PanaFlow Z1G/Z2G system shown in Figure 2 includes the following items:

- 1 - Meter Body with Flanges (material list: WCB: LCB: CF8M: CD3MWCuN)
- 2 - XGM868i Electronics
- 3 - Electronics Mounting Bracket
- 4 - Remote Mount Adapter
- 5 - Haz. Area Certified Remote Cable
- 6 - Combined Pressure & Temperature Sensor (Optional)

**3. Remote Mount Connection between FlowCell and Electronics**

**3.1 Wiring Configuration options with/without Preamp**

**Figure 2: Remote Mount PanaFlow Z1G/Z2G**

**Figure 3: Remote Mount Wiring Options**

**Figure 4: Wiring Configurations for Remote Mount Without Preamp**

**Figure 5: Wiring Configurations for Remote Mount With PreAmp**

**Note:**
For Making Remote Mount Connection between FlowCell and Electronics See Figure 2 to Figure 7.

**WARNING!** The PanaFlow Z1G/Z2G Process Gas Flowmeter can measure the flow rate of many gases, some of which are potentially hazardous.
4. Making the Electrical Connections

To prepare the PanaFlow Z1G/Z2G Process Gas Flowmeter for wiring, refer to Figure 6 and Figure 7, and complete the following steps:

4.1 Wiring the Transducers (Remote Mount only, Refer Section-3)

4.2 Wiring the Standard 4-20mA Analog Outputs

4.3 Wiring the Standard RS485 Serial Port

4.4 Wiring the Option Cards (For PT Sensor only)

5. Operation

The PanaFlow Z1G/Z2G Process Gas Flowmeter does not have an ON/OFF switch, it will power up as soon as the connected power source is energized. There are three methods for obtaining readings from the PanaFlow Z1G/Z2G Process Gas Flowmeter (Refer User Manual):

- Built-in PanaFlow Z1G/Z2G Process Gas Flowmeter LCD display
- PanaView software installed on a personal computer
- External analog device to read the PanaFlow Z1G/Z2G Process Gas Flowmeter analog output.

5.1 PanaFlow Z1G/Z2G Process Gas Flowmeter LCD Display

The PanaFlow Z1G/Z2G Process Gas Flowmeter display screen includes the following information:

- Channel Number
- Flow Parameter
- Units of Measure
- Flow Rate Value

5.2 Programming the LCD Display

The Flowmeter is pre-programmed, to modify the program use the Keypad Program. Complete the following steps to program the LCD display: Refer User Manual.

1. Power up the PanaFlow Z1G/Z2G Process Gas Flowmeter and wait until it has initialized. To enter the Keypad Program, press the [ ] key, followed by the [ ] key, and the [ ] key again. Each successive key must be entered within 10 seconds of the prior key.

2. In the Keypad Program window, scroll to PROG and press [ ]. In the PROG menu, scroll to GLOBL and press [ ].

3. Scroll to I/O and press [ ] and scroll to LCD and press [ ].

4. At the # of LCD Parameters screen, scroll to the desired number (from OFF through 1-4 and KEY) and press [ ]. The OFF setting switches the measurement display Off. The KEY setting enables users to change the measurement display with the arrow keys, without accessing the Keypad Program. If you select KEY:

   - To view a parameter other than the one currently displayed, press the [ ] and [ ] keys to scroll through the various available parameters.

5. Select the desired Measurement Parameter.