Quick-Installation Instructions for 820-Series Meters

1. If equipped with a black nylon flow body, **DO NOT OVERTIGHTEN** your fittings or pipes when installing them into the hexed-portions of the flow body. Use two wraps of Teflon tape on each of your fittings, hold the plastic hexagonal nuts with a wrench, and tighten your fittings no more than one (1) turn past hand tight.
2. On models 826 and 827, consult the Operator's Manual, Chapter 2, for recommended upstream and downstream straight-run piping requirements.
3. **NEVER TEST FOR LEAKS WITH LIQUID LEAK DETECTOR**. If liquid seeps into the electronics or the hidden sensor compartment below them, the instrument may be damaged. Use a pressure-decay test instead.
4. **Install an upstream in-line particulate or moisture filter** if the gas contains any particulate matter or liquid. (15-micron particulate filter for flows up to 30 slpm is recommended, 30 micron for flows above 30 slpm).
5. **Mount for a horizontal gas-flow.** This is preferable unless the factory calibration was specifically performed for a vertical flow. Consult your Calibration Certificate. (Horizontal flow is assumed unless vertical flow upward or downward is specified).
6. **Apply the gas** listed on the label to the inlet at the recommended inlet (not maximum) pressure as listed on the Calibration Certificate. Obtain this pressure by blocking off the flow downstream.
7. On units equipped and calibrated for a 4-20 mA output signal, **DO NOT APPLY POWER TO THE OUTPUT SIGNAL LOOP.** This is NOT a loop-powered device. Damage will occur.
8. **Before applying input power to the meter, check the model number** for the following codes: "PV1" models require 12-15 VDC, while "PV2" models require 24 VDC. Applying the incorrect voltage may damage the instrument or give incorrect zero or flow readings.
9. **Wire the instrument** per the diagram on the back of this card, or the Operator's Manual, Chapter 3.
10. **Apply power, allow a 15-minute warm-up period,** and verify or adjust the zero setting. This adjustment can be made by sliding the door open on the side of the instrument, inserting a small screwdriver, and turning the potentiometer. On models without displays, monitor the output signal and always adjust DOWN from a positive output, stopping at 4.05 mA (V4 instruments) or 15 mV (V1 instruments). (See the Operator's Manual, Chapter 3)
11. An annual factory evaluation and calibration is recommended.

Email Technical Support: Service@sierrainstruments.com

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Pin No.	Designation	Optional Cable CDMT Color Codes
1	No connection	Not wired
2	Signal common	Black (0-5 Vdc meters)
3	0-5 Vdc output signal	White (0-5 Vdc meters)
4	+ Power supply	Red
5	Remote display output signal	Not wired
6	Remote display reference	Not wired
7	Power common	Green
8	4-20 mA common	Black (4-20 mA meters)
9	4-20 mA output signal	White (4-20 mA meters)

D-connector

6 1
7 2
8 3
9 4
   5

DC power jack

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47-0395 A