

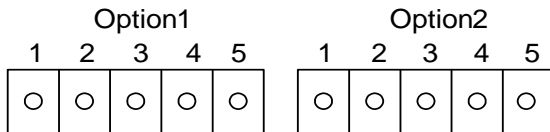


Optional Input Electronics Wiring Guide

Series M22/M23/M24, MVC, and Pro-T™

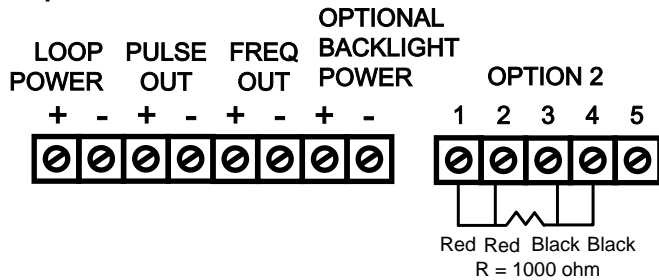
Optional Input Electronics Wiring

The flow meter has two optional input wiring terminals, maximum wire size is 16 AWG. These can be used to input a Remote or Second RTD in the case of an Energy Monitoring meter, for the input of a Remote Pressure Transducer, to pass a Contact Closure or for a Remote Density measurement to name a few. In any case, a QR code will be included on the terminal board overlay inside the enclosure of the flow meter if any of the options are specified. Otherwise, the optional terminal blocks will be left blank and nonfunctional.



Optional Energy EMS RTD Input Wiring

Loop Power



* Other input options available.

High Power

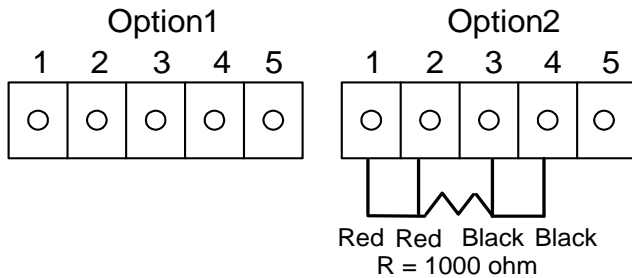


Figure 1. Optional Energy EMS RTD Input Wiring

The recommended customer supplied second RTD is a Class A 1000 ohm 4-wire platinum RTD. If a second RTD is not being used, then the factory supplied 1000-ohm resistor needs to be installed in its place.

Optional External 4-20 mA Input Wiring

The meter is set to have Option 1 used for the external input. Programming menus that pertain to the optional 4-20 mA input are located in the Hidden Diagnostics Menu. See Chapter 5 of the manual for more information.

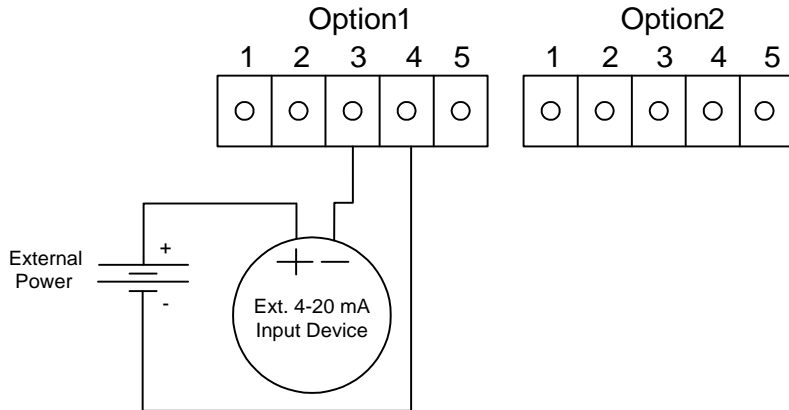


Figure 2. External 4-20 mA Input Wiring - External Power Supply

Follow the above diagram to wire the external 4-20 mA input into the flow meter using an external power supply.

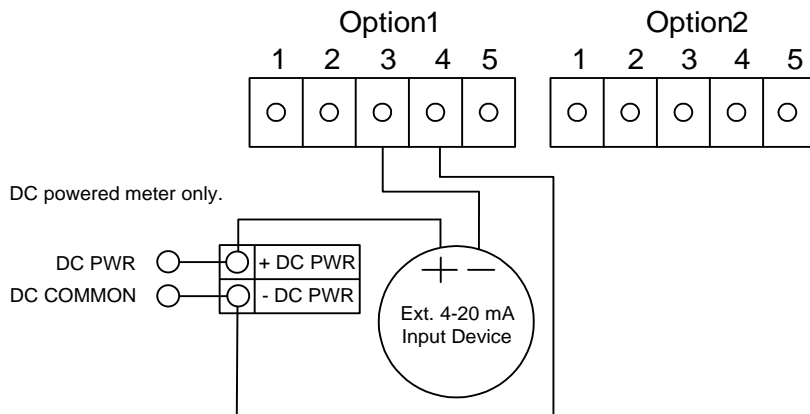


Figure 3. External 4-20 mA Input Wiring - DC Powered Meter

Follow the above diagram to wire the external 4-20 mA input into the flow meter using power supplied to the input of a DC powered flow meter.

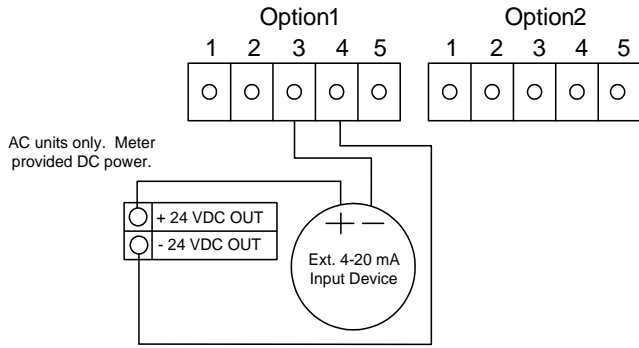


Figure 4. External 4-20 mA Input Wiring - AC Powered Meter

Follow the above diagram to wire the external 4-20 mA input into the flow meter using power from the 24 VDC output of an AC powered flow meter.

Optional External 4-20 mA Input and RTD Wiring

Loop Power

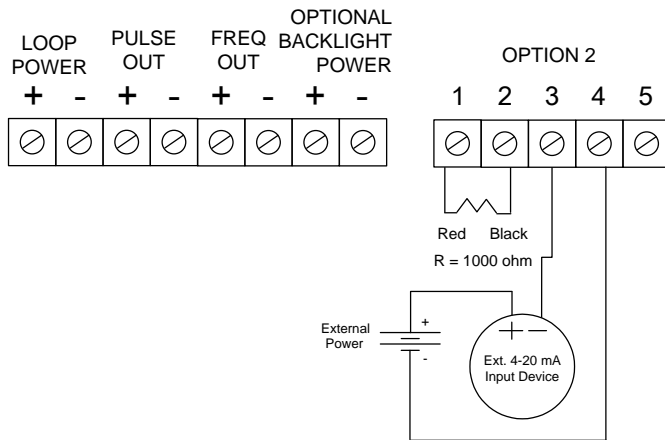


Figure 5. External 4-20 mA Input and RTD Wiring – Loop Power

High Power

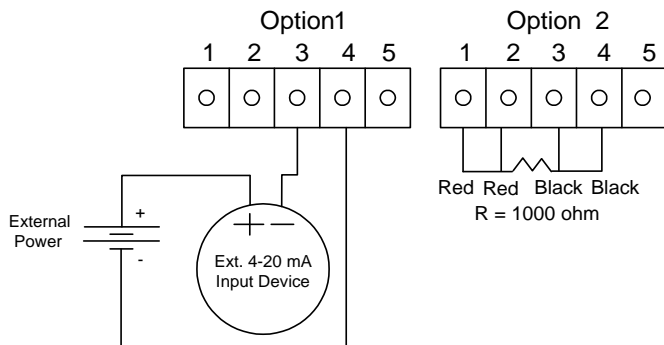


Figure 6. External 4-20 mA Input and RTD Wiring – High Power

Optional Energy EMS External 4-20 mA Input and RTD Wiring

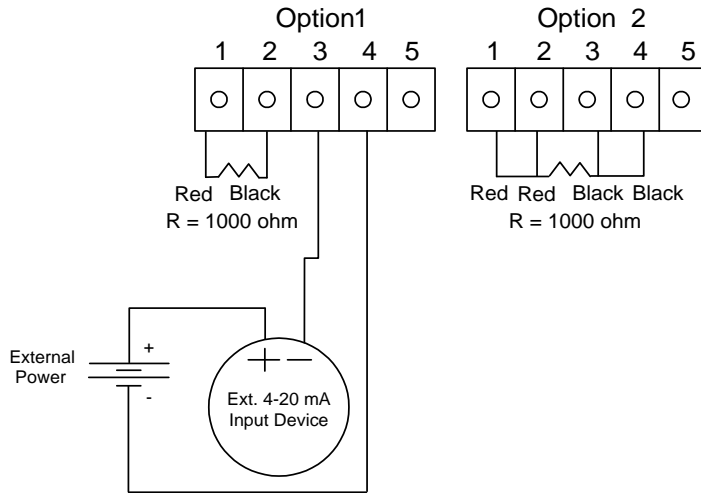


Figure 7. Energy EMS External 4-20 mA Input and RTD Wiring – High Power

Optional External Contact Closure Input Wiring

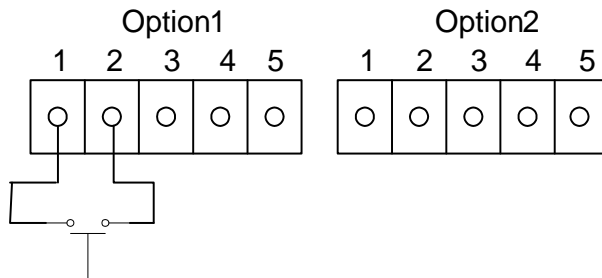


Figure 8. Optional External Contact Closure Input Wiring

Follow the above diagram to wire an external switch input into the flow meter. The flow meter is configured to have Option 1 used for the external input. If the above switch is used to remotely reset the totalizer a pushbutton switch with a momentary contact closure is recommended.