Wiring and Connection Instructions

4-20 Internal and External Wiring guides for 4-20, 1-5 VDC across a 250 Ohm Resistor and 0-5 VDC hookup

Internal 4-20 Configuration

Wiring for 4-20 using the Internal 24 VDC power supply from the Mass Flow Meter. The 0-5 VDC is also shown with the Orange (PLUS) and White (MINUS) wire.
Wiring for 4-20 using the Internal 24 VDC power supply from the Mass Flow Meter. Be sure to place the jumper to the INT position. This is the easiest method of outputting 4-20 mA for 0 to Full Scale. DO NOT USE this method if you are using a PLC or device that has POWER. This method can be easily read with a DVM configured to read current as shown above. The advantage of this method is near immunity to noise. Frequently users use 4-20 mA to drive the current across a 250 Ohm Resistor and simply measure 1 to 5 VDC for 0 to Full Scale.
Internal 4-20 for driving 1 to 5 VDC at PLC or measuring device. This is what is commonly used when the user has a voltage reading device or a pure current reading device.

EXTERNAL 4-20 Configuration
Wiring for 4-20 using using your EXTERNAL 12 - 36 VDC power supply. The 0-5 VDC is also shown with the Orange (PLUS) and White (MINUS) wire.
Wiring for 4-20 using your External 12-36 VDC power supply from your device. Be sure to place the jumper to the EXT position. USE this method if you are using a PLC or device that has POWER. The advantage of this method is near immunity to noise. Frequently users use 4-20 mA to drive the current across a 250 Ohm Resistor and simply measure 1 to 5 VDC for 0 to Full Scale.
Using 4-20 Output using EXTERNAL + 12 to 36 VDC power and measuring 1 to 5 VDC across a 250 Ohm Resistor

External 4-20 for driving 1 to 5 VDC at PLC or measuring device. This is what is commonly used when the user has a voltage reading device.