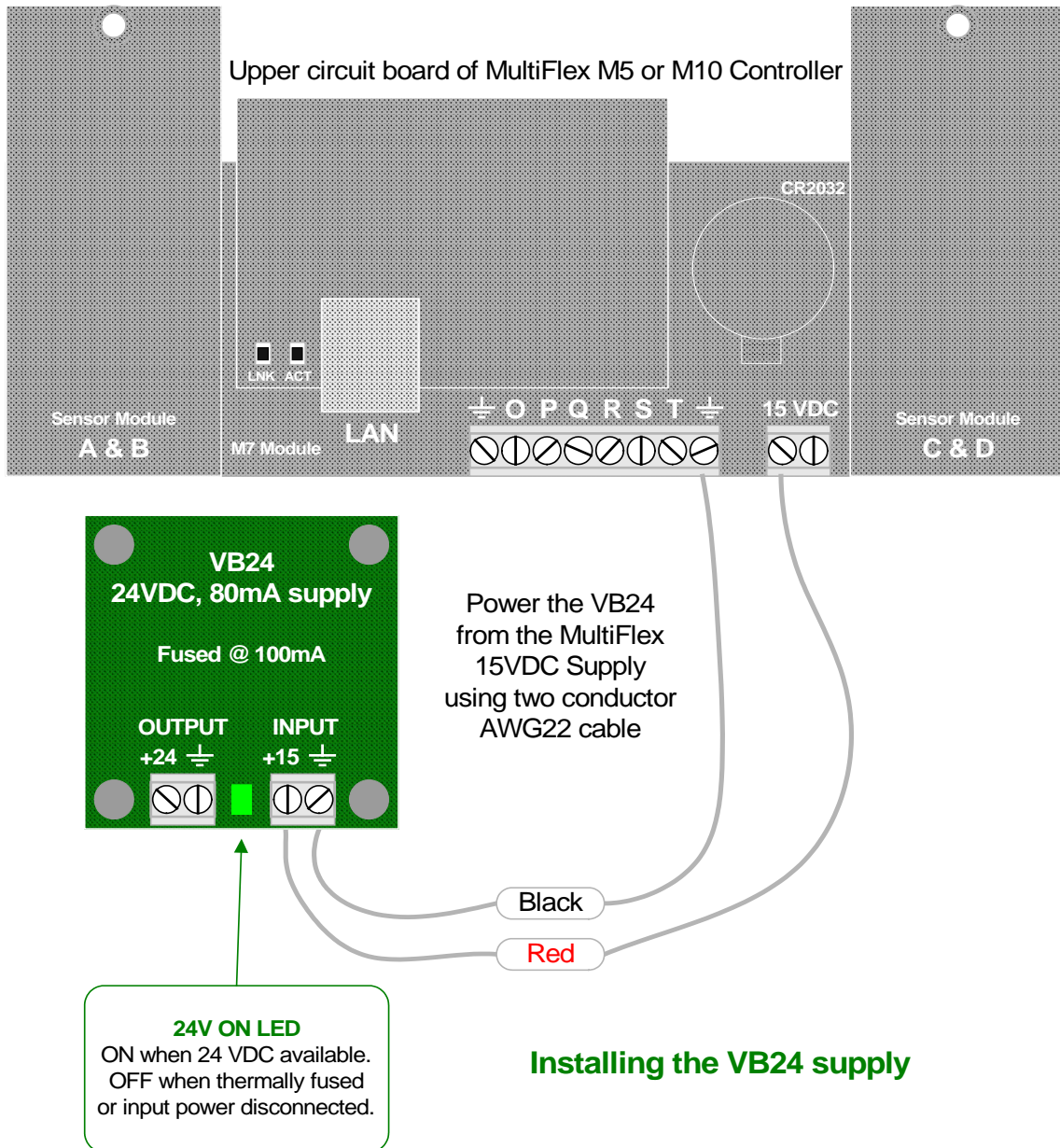


## 1. VB24 Installation

MultiFlex controllers provide an unregulated, thermally fused 15 to 22VDC supply for use by loop powered sensors and Hall effect, turbine-paddlewheel water meters.

The VB24, boosts the unregulated controller supply to a regulated 24VDC, 80mA supply.

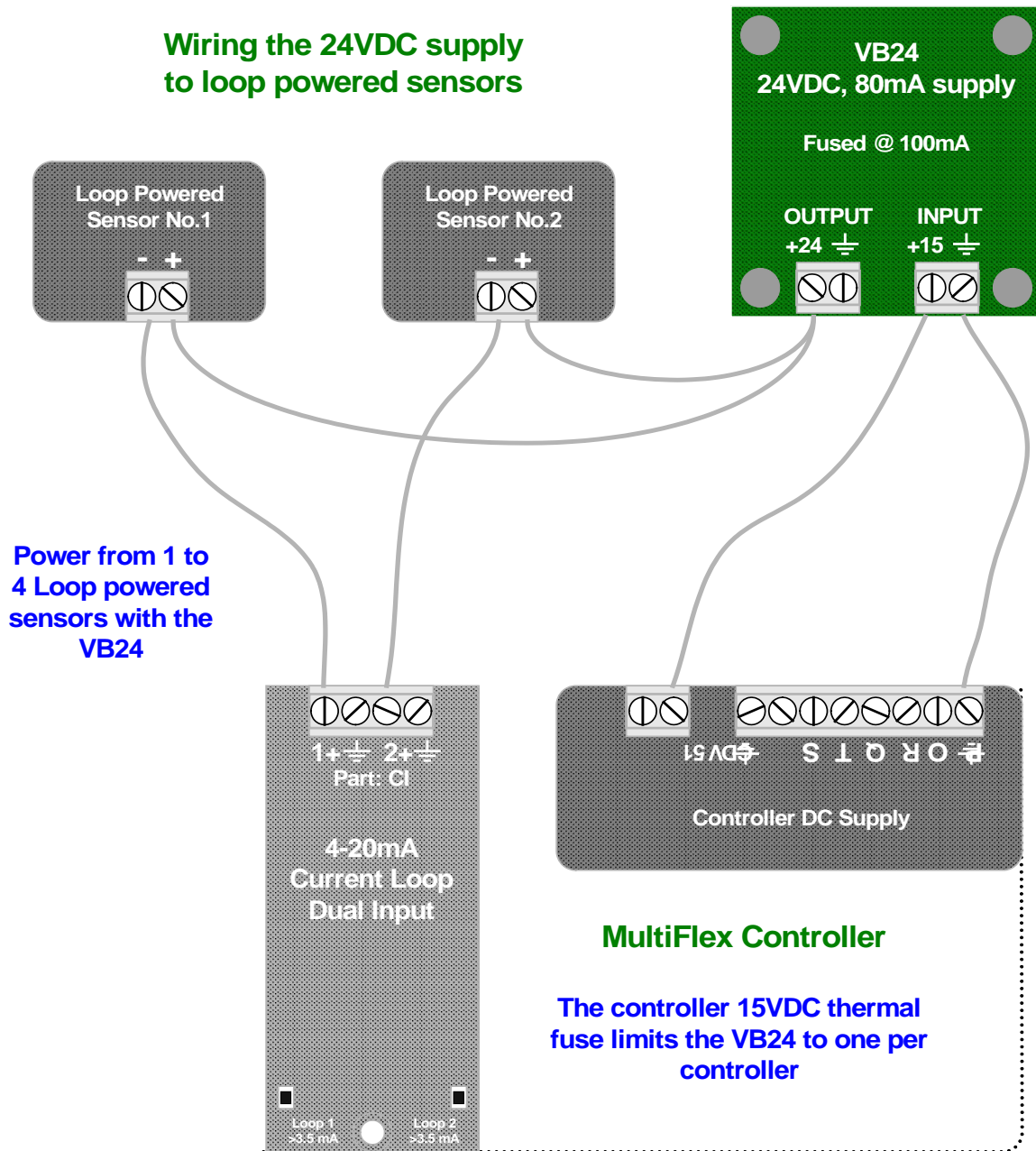


The VB24 is supplied pre-wired to the controller 15VDC power as shown in the previous graphic. It is installed on the backplate at the right bottom of the controller enclosure below the power-relay circuit board.

## 2. Cabling to Controller 4-20mA Inputs

It's not necessary to wire the 4-20mA input driver ground terminals to the controller ground terminal since all grounds are internally connected.

The 24VDC supply negative is also the controller ground. So it's not necessary to connect the 24VDC output ground to the controller ground. No fault occurs if you wish to install ground terminal cabling.



## 2. Specifications

Function	Rating	Notes
DC Output	24VDC @ 80mA +/- 1V	Nominally 81% efficient at rated load. Dissipates less than 1/2W at rated load. Thermal rise 20F / 12C.  Nominally 140mV/p-p ripple @ rated load. 100KHz switching frequency.
Thermal Fuse	100mA	Fusing disconnects 24VDC and turns OFF 24V ON LED. Recovers automatically when wiring corrected or load at rated current.
Max Input Voltage Min Input Voltage	24VDC 15VDC	The 15VDC Input is polarity protected and thermally fused by the controller thermal fuse.
24V ON Indicator	Green LED ON at 24VDC out.	Visual indication of correct loop wiring polarity and active loop power.
Size - Mounting	2" x 2" x 0.5"H  Mounting 3 or 4 x #6 machine screws on 1.7" C-C	50mm x 50mm x 12mm

### Caution:

1. Do not install more than one VB24 in any MultiFlex.
2. Do not install the VB24 power supply anywhere but on a MultiFlex controller backplate.