Hero™2 with NEMA4 Enclosure- Basic Installation Guide

If Hero 2 was ordered without Installation kit, you will need the following:

- 16 – 18 GA stranded wire, approximately 60' (multiple colors recommended) for wiring the Hero 2 to connection points
- 6 – 10 GA stranded wire, approximately 12' (depending on the amperage being put out by the rectifier) for interrupting the current
- Various ¾" conduit fittings and a length of conduit
- ***Instruction in bold are specific to Hero 2 purchased without the Installation kit***

If you received a Hero 2 with an Installation kit, you will find the following wires, pre-wired to the terminals:

- Yellow pair – Power to the relay
- Red/Black pair – Power to the unit
- Grey jacketed wire pair with Red/Black wires – Output Voltage connection
- Black jacketed wire pair with Red/Black wires – Shunt connection
- Blue pair – interrupting the current

Along with:

- A straight thru ¾" conduit hub, attached to the Hero 2
- A 90 degree ¾" conduit hub for attachment to the rectifier
- 4' of ¾" conduit

1. Using a multimeter find and mark two taps on the rectifier that deliver between 12 and 18VAC. These will power the Hero 2
2. Using a multimeter find and mark two taps on the rectifier that deliver ~24VAC (22-28 VAC). These will power the relay
3. Power down AC to the rectifier
4. Mount Hero 2 monitor on structure (lag bolts included, other mounting supplied by installer)
5. Insert 3/4" cable hub into rectifier
6. Cut conduit to desired length
7. Feed all wires through the conduit into the rectifier
8. Connect Yellow pair of wires **(from the Terminals on the Interface Board marked "INTERRUPTER RELAY")** to ~24VAC taps (polarity is not important). **If your Hero 2 was ordered without installation kit, these wires should go on the NO and C terminals on the terminal marked INTERRUPTER RELAY.**
9. **If your Hero 2 was ordered without the installation kit, cut one of the Yellow wires (it does not matter if you cut the NO or C wire) and connect to top and bottom of the Interrupter Relay brass terminals (the inner 2 connection points).**
10. Connect Red/Black pair of wires **(from the Terminals on the Interface Board marked "Supply 60V MAX)** to 12-18VAC taps (polarity is not important)
11. Connect Grey jacketed wires **(from the Terminals on the Interface Board marked "RECT 0-150V")** to the DC output (polarity is not important)

12. Connect Black jacketed wires **(from the Terminals on the Interface Board marked "SHUNT 0-500MV")** to the Shunt terminals (polarity is not important)
13. Connect Blue pair of wires **(Current protection wires from the relay)** to the interruption points (polarity is not important)
14. Power up the AC to the rectifier
15. On Interface board, if all LEDs are blinking, then an overvoltage situation exist and must be corrected
16. If all LEDs are not blinking, connect the battery leads (polarity is important, *red wire to red connector + black to black*)
17. The Hero 2 will go through its startup process. Once the unit is online, the Blue Heartbeat light will be flashing once per second and the Status, Radio & Data LEDs will all be solid
18. If the green Status light is blinking after startup has finished and the blue heartbeat light is flashing, check for the following faults: 1) The battery is disconnected; 2) the GPS antenna cannot make connection with the GPS satellites; or 3) the main power is out. Correct these faults before proceeding. (Note the GPS connection could take as long as 3 minutes to connect)
19. If the unit fails to come online call OmniMetrix Tech Support, 770-209-0012 ext. 2, for further support
20. Go to the OmniMetrix website, https://webdata.omnimetrix.net/omxphp/omxLogin.php, to name the unit, set scale factors and to set up messaging

HERO 2 RECTIFIER MONITOR CONNECTIONS