



IRRIGATION AUTOMATION

Dcon_Ag_SMART

Field Installation Document





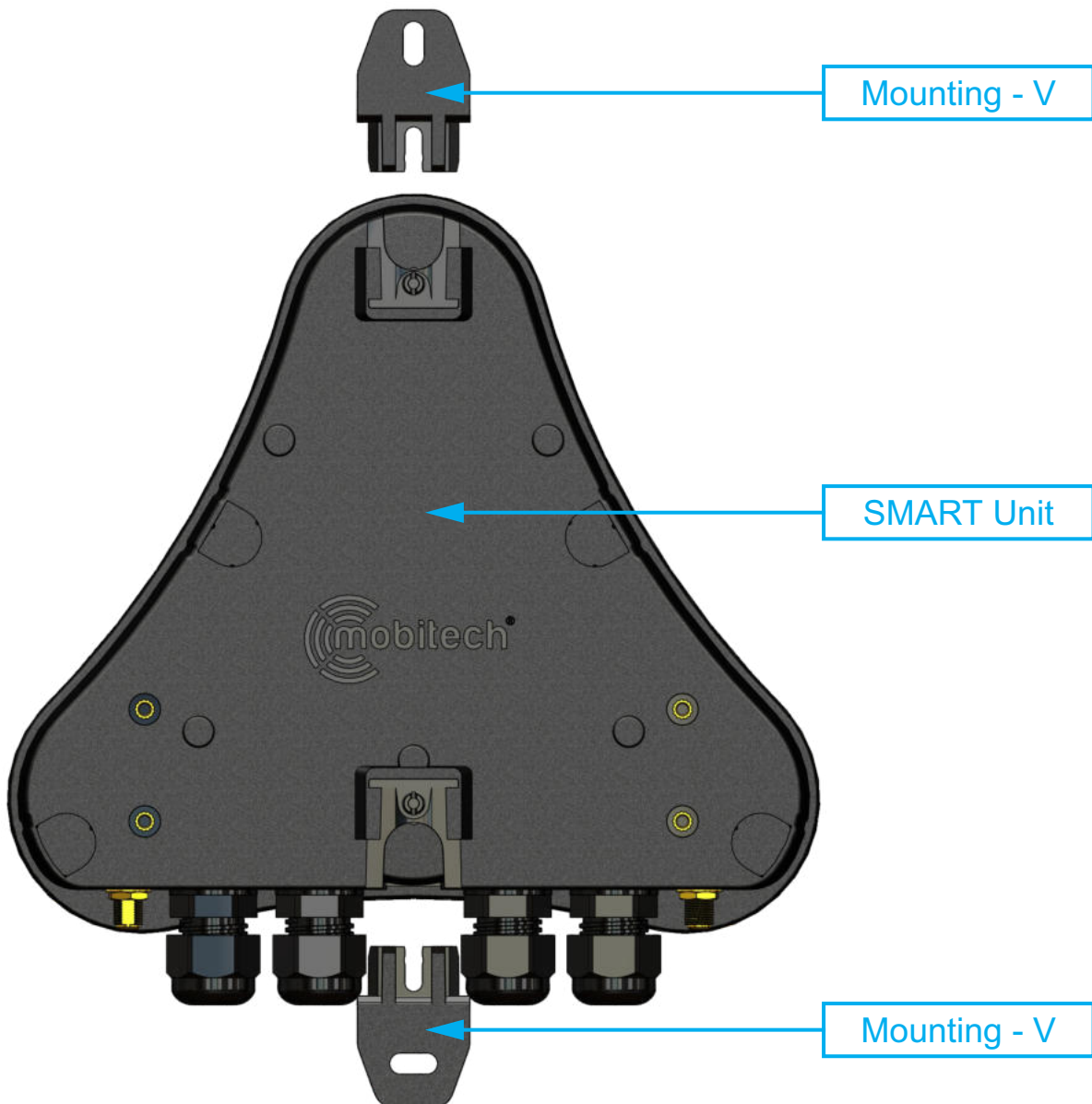
Technical Specification:

- Product Name : SMART
- Solar Panel : 9V / 6W
- Battery : 3.7V / 5.2Ah
- Backup Time : Up to 24 Hours
- Input Voltage 3 Phase : 360V - 450V AC
- Input voltage 1 Phase : 180V - 240V AC
- CT Coil : 50A (Default)
: 500A (Supports Externally)
- Phase Protection : 3 - phase fuse protection (one fuse per phase)
- Cloud Communication : GSM / WiFi
- Communication : LoRa and BLE 5.0
- Compatibility : Suitable for all types of Starters and Panels.
- GPS : Inbuilt

Assembly Procedure:

Mounting Assembly:

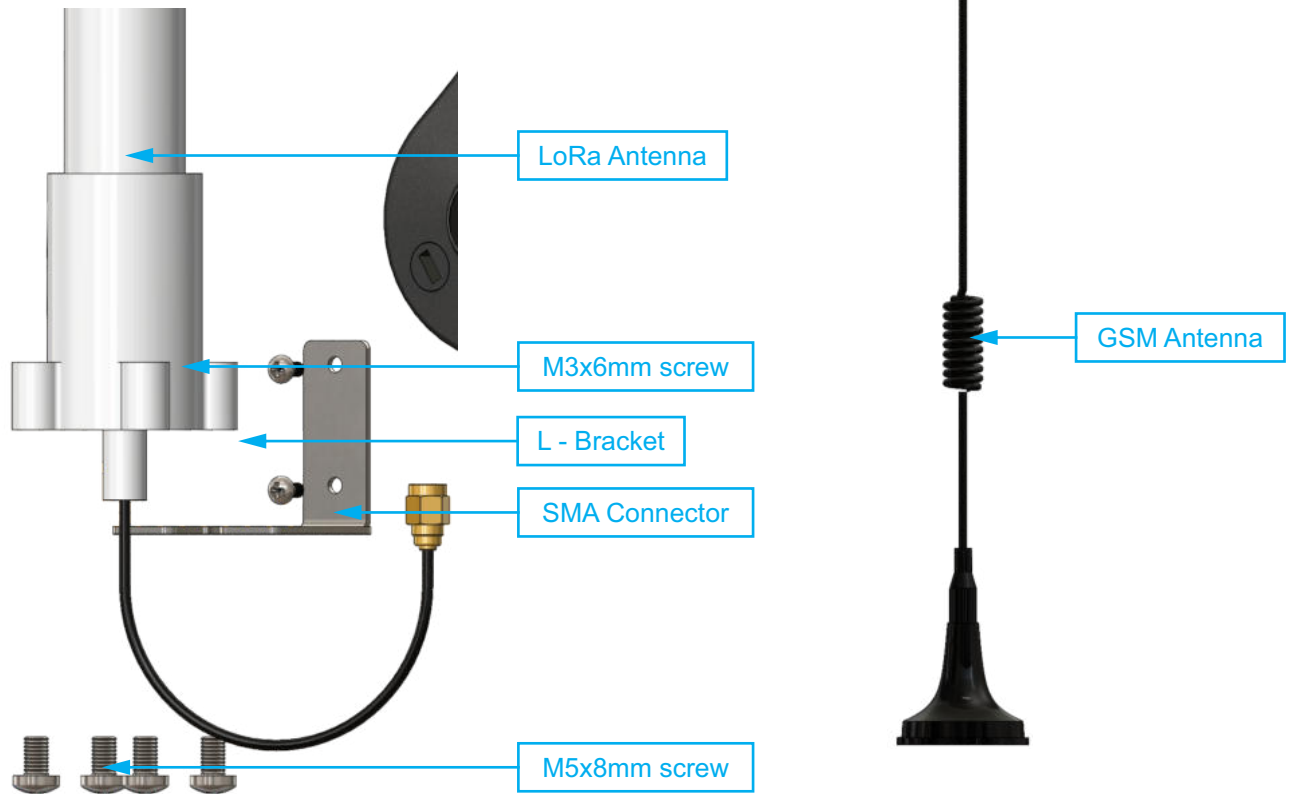
- Place V slot mounting at top side.
- Place H slot mounting at bottom side.





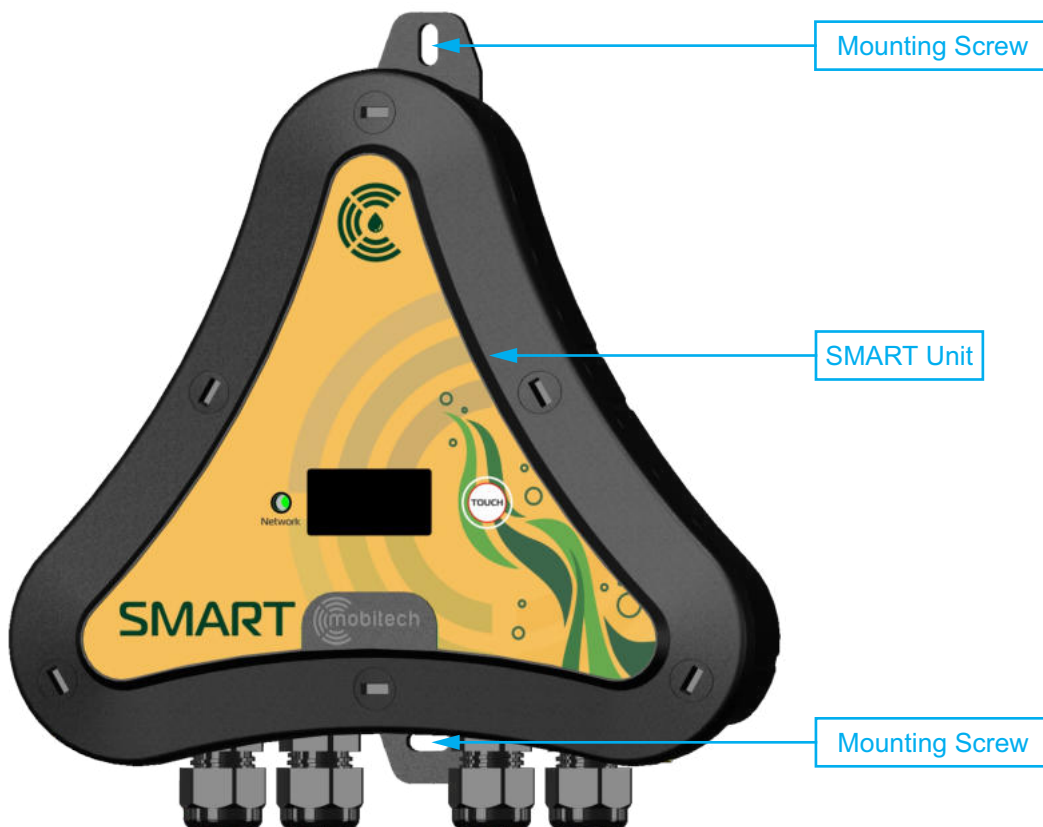
Antenna Assembly:

- Place the L-bracket for antenna mounting and screw with M3x6mm screw.
- Place the antenna on the mounting plate with M5x8mm screw.
- Connect antenna connector to SMA connector in SMART unit.
- Place the GSM antenna on wall.
- Connect antenna connector to SMA connector in SMART unit.

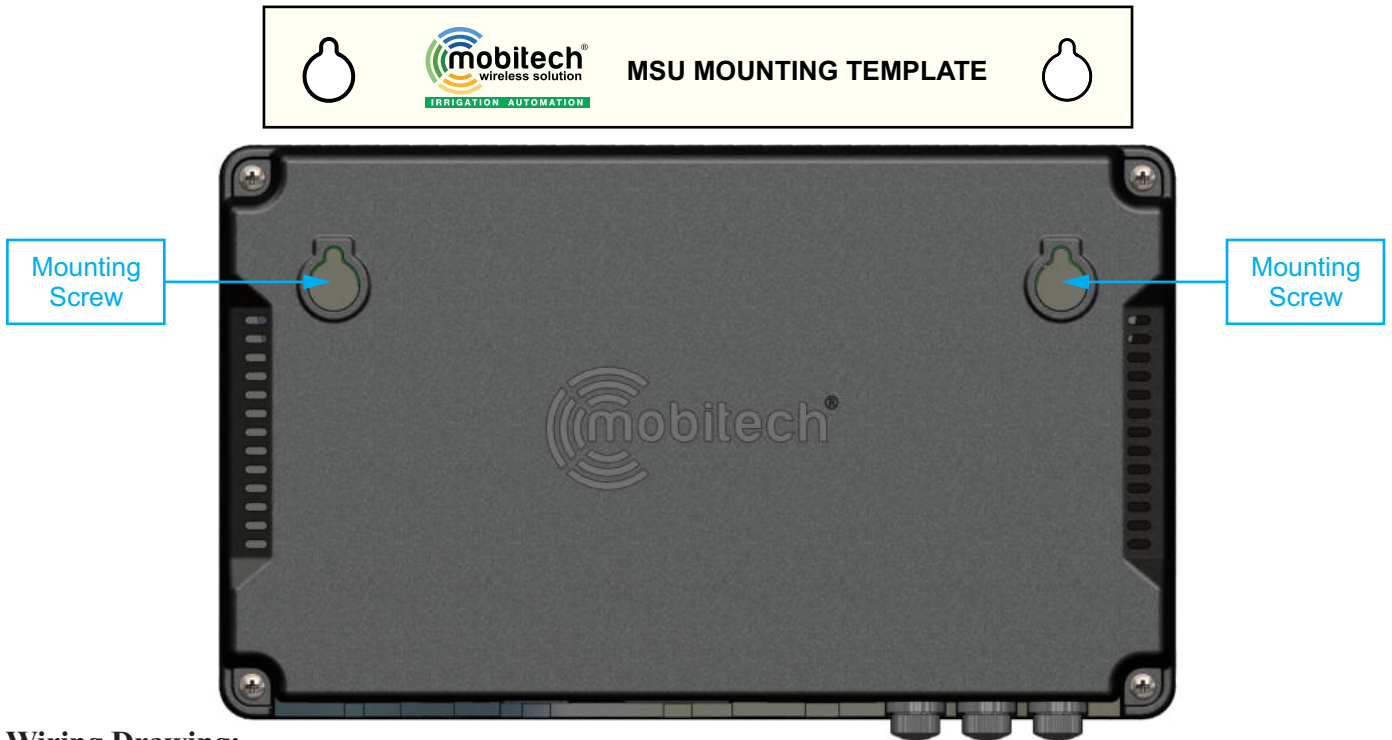


Wall Mount:

- Mount SMART unit with screw on wall.

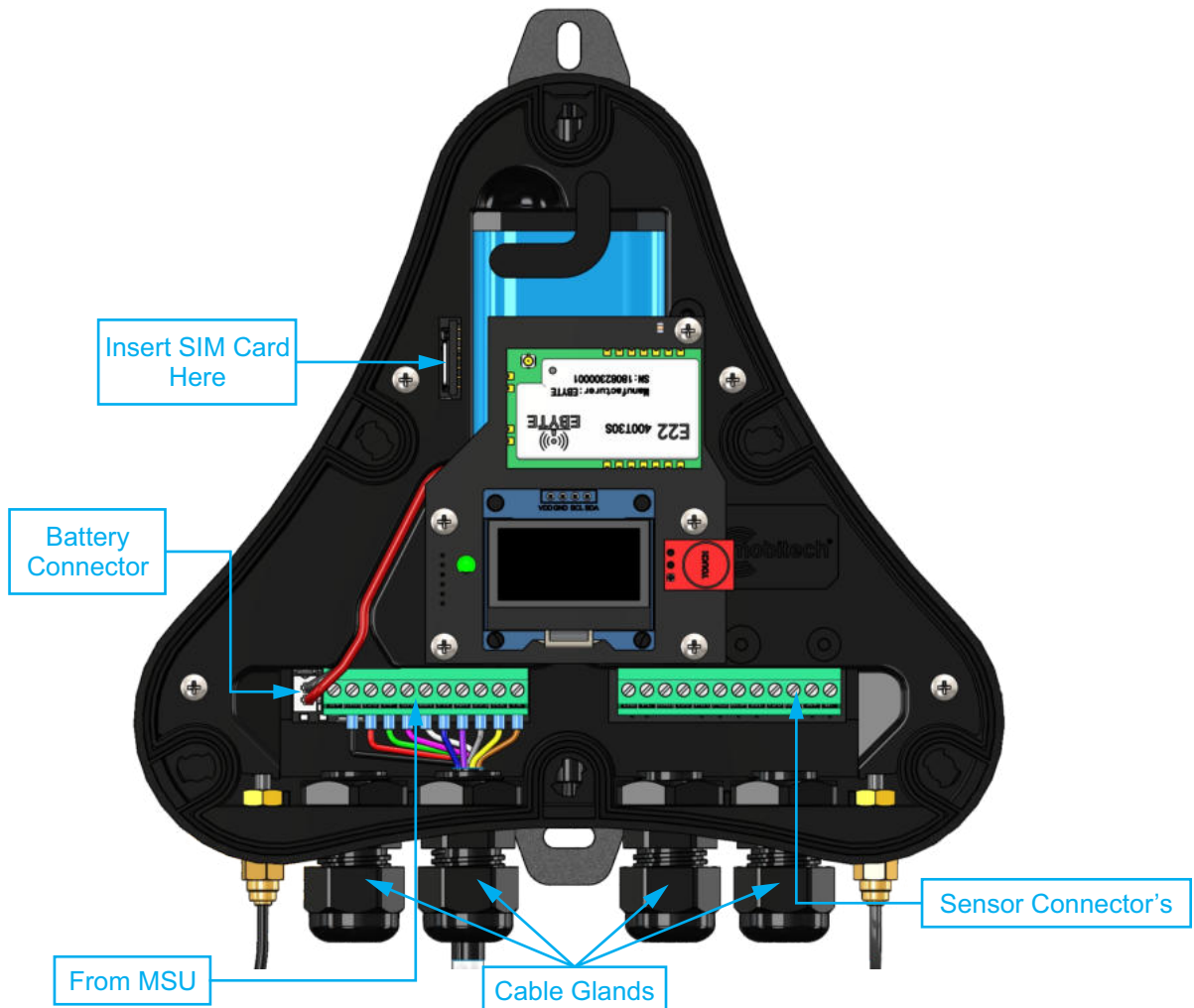


- Mount MSU unit with screw on wall using marking template given with unit.



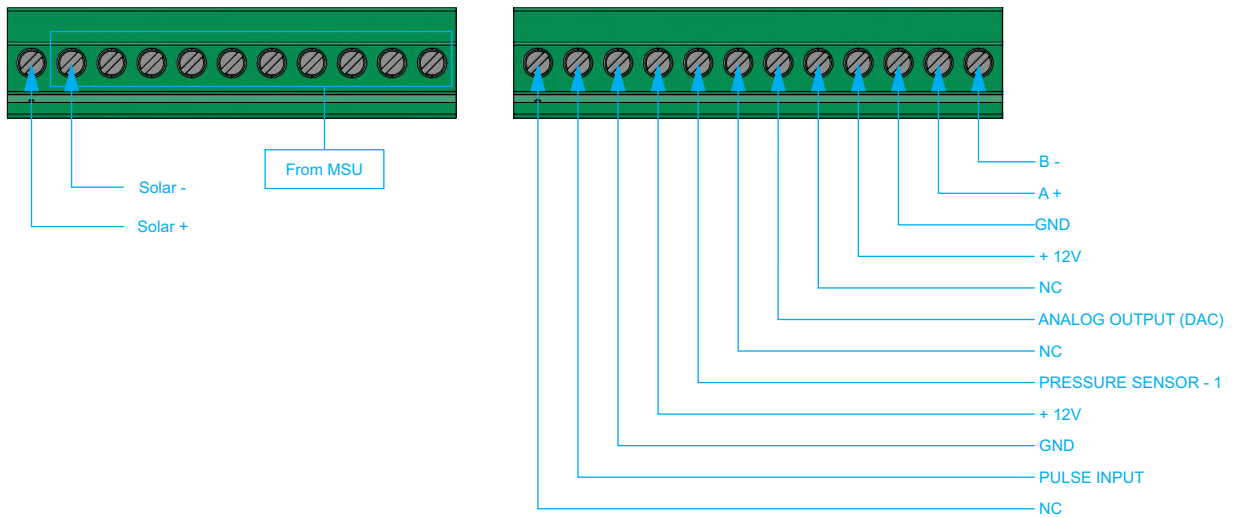
Wiring Drawing:

- Open top cover.
- Open cable gland 2, insert sensor cable's in to cable gland 2 and connect cable as shown in wiring diagram.
- Connect Battery Connector as shown in picture.
- Check all connections and ensure tight of cable gland before closing top cover.





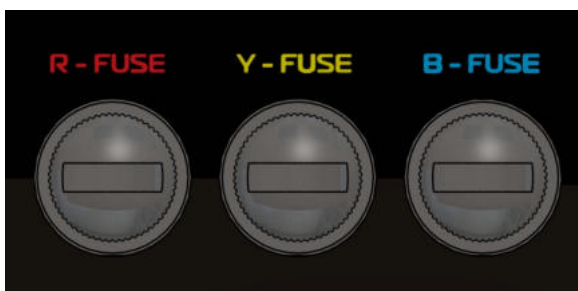
Connector Detail:



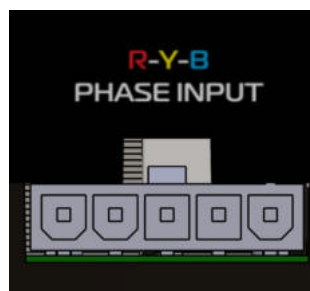
MSU Connector Detail:



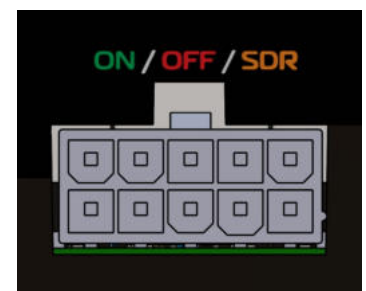
Fuse:



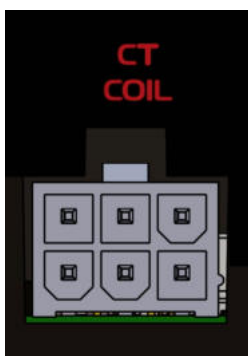
Power Input:



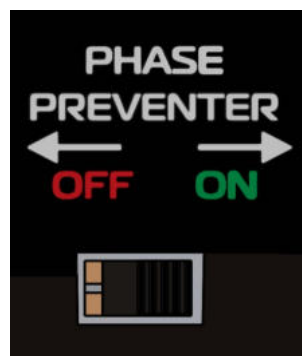
9-Pin Connector:



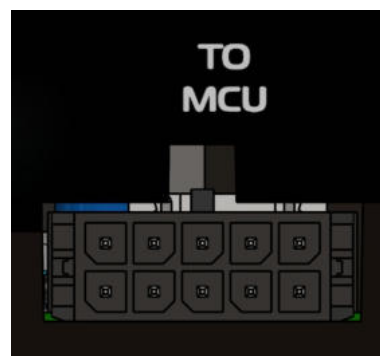
CT Coil:



Phase Preventer:

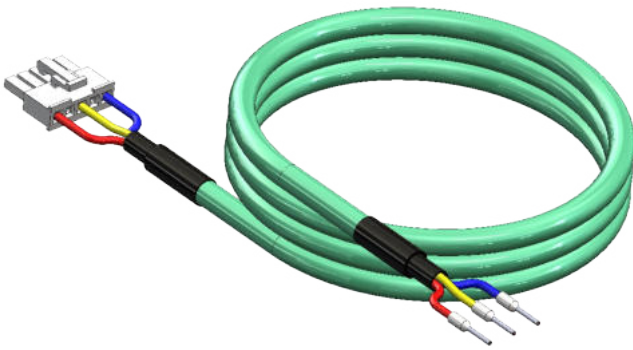


10-Pin Connector:





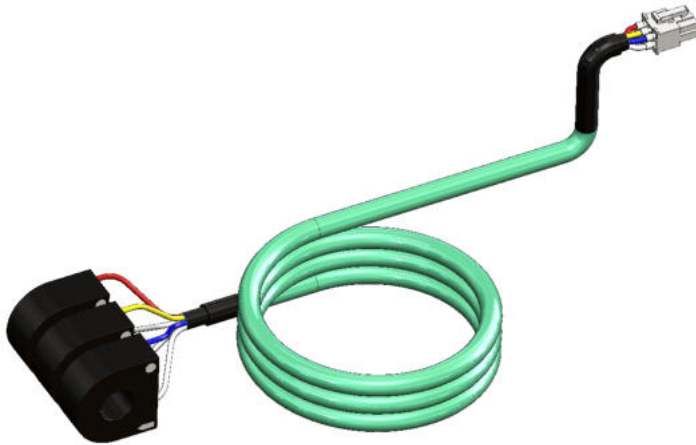
3 - Core Cable:



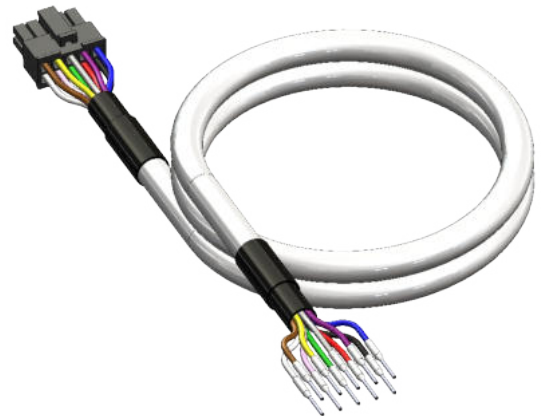
9 - Core Cable:



CT Coil 6 - Core Cable:

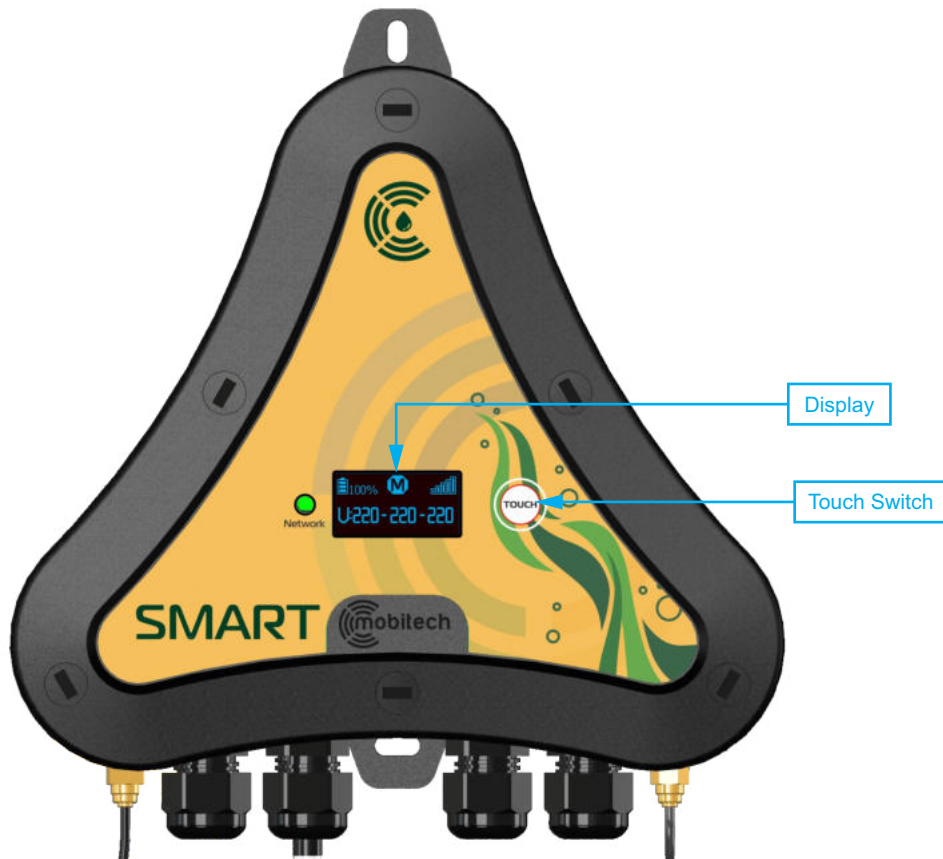


10 - Core Cable:



Configuration:

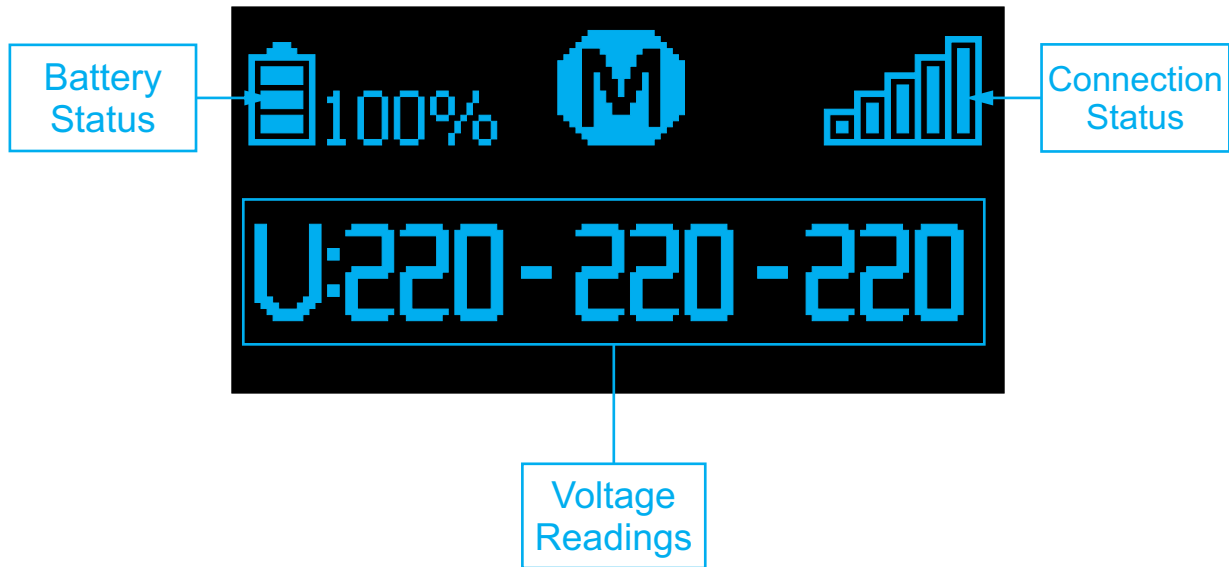
- After finishing wiring, touch the touch sensor, it will wake-up display.
- Long touch (3sec) to connect Blue tooth for configuration.



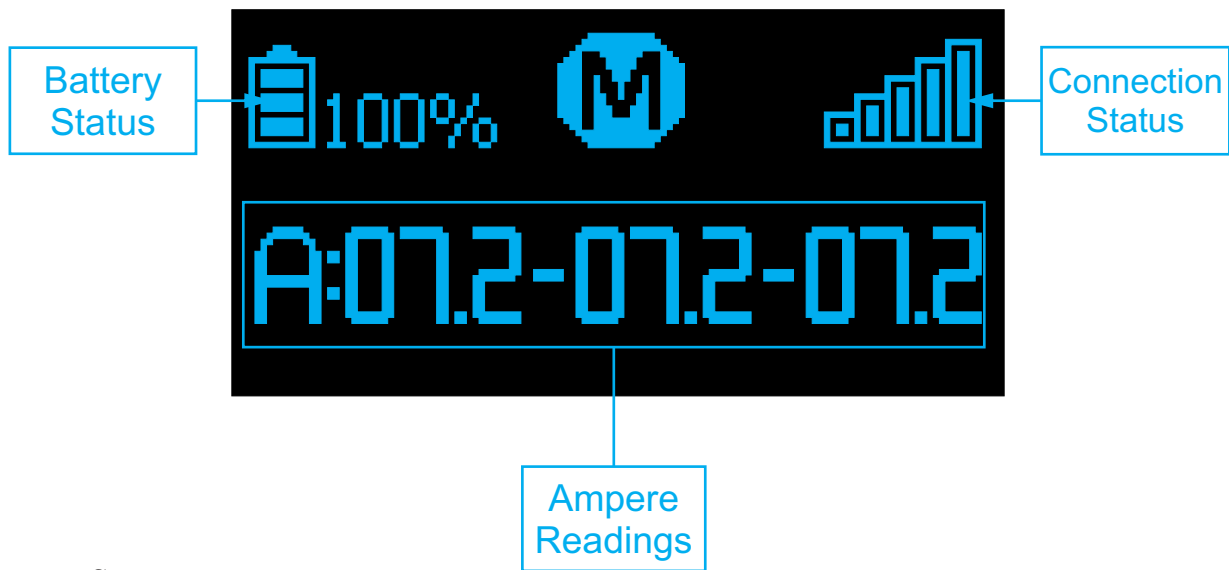


Display Screens:

Display - 1:



Display - 2:

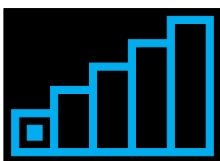


Battery Status:



- It shows Internal Battery Percentage.

Connectivity:



- It shows Signal Strength.