# 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.
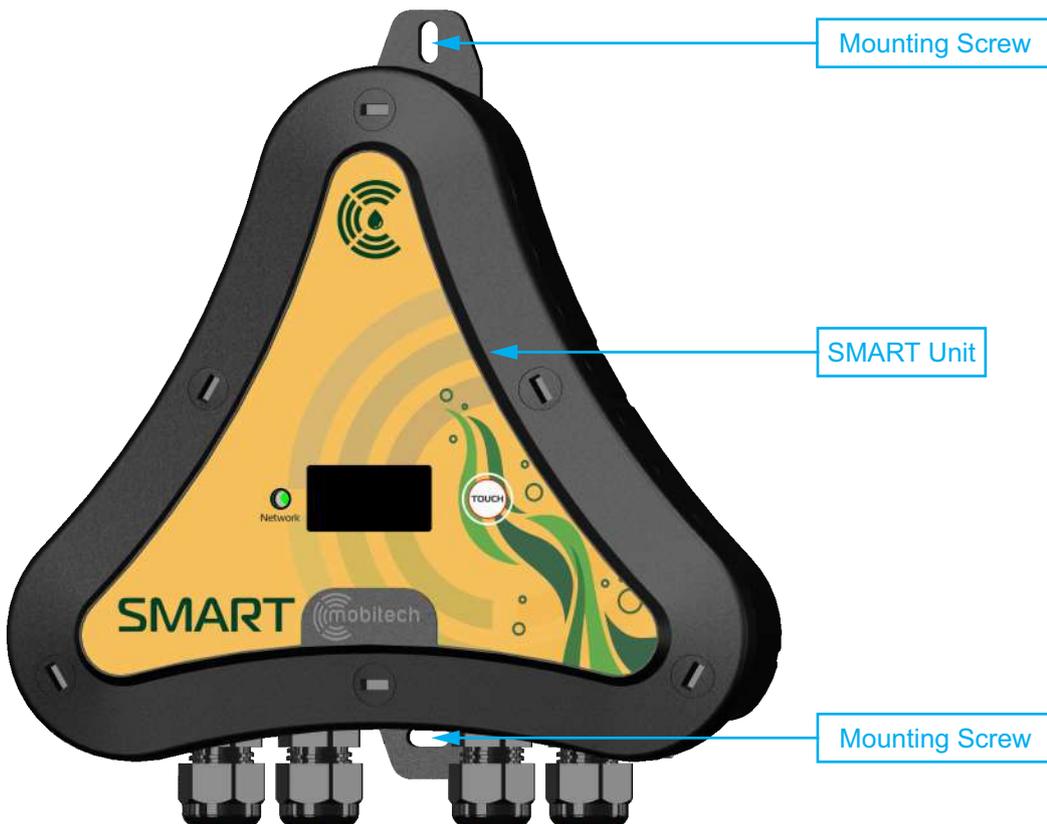

Mounting - V

SMART Unit
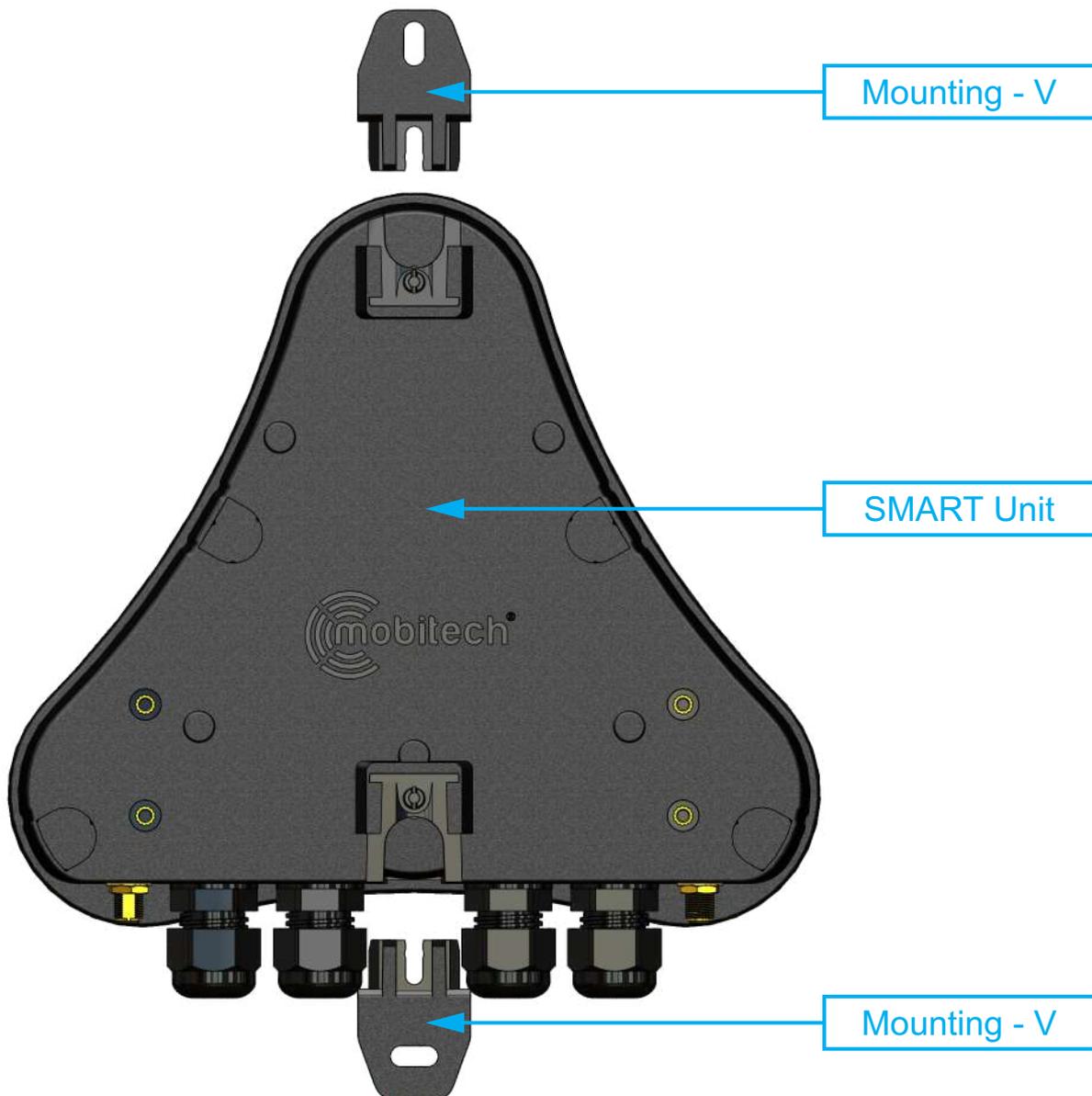
Mounting - V

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.

LoRa Antenna

M3x6mm screw

L - Bracket

SMA Connector

M5x8mm screw

GSM Antenna
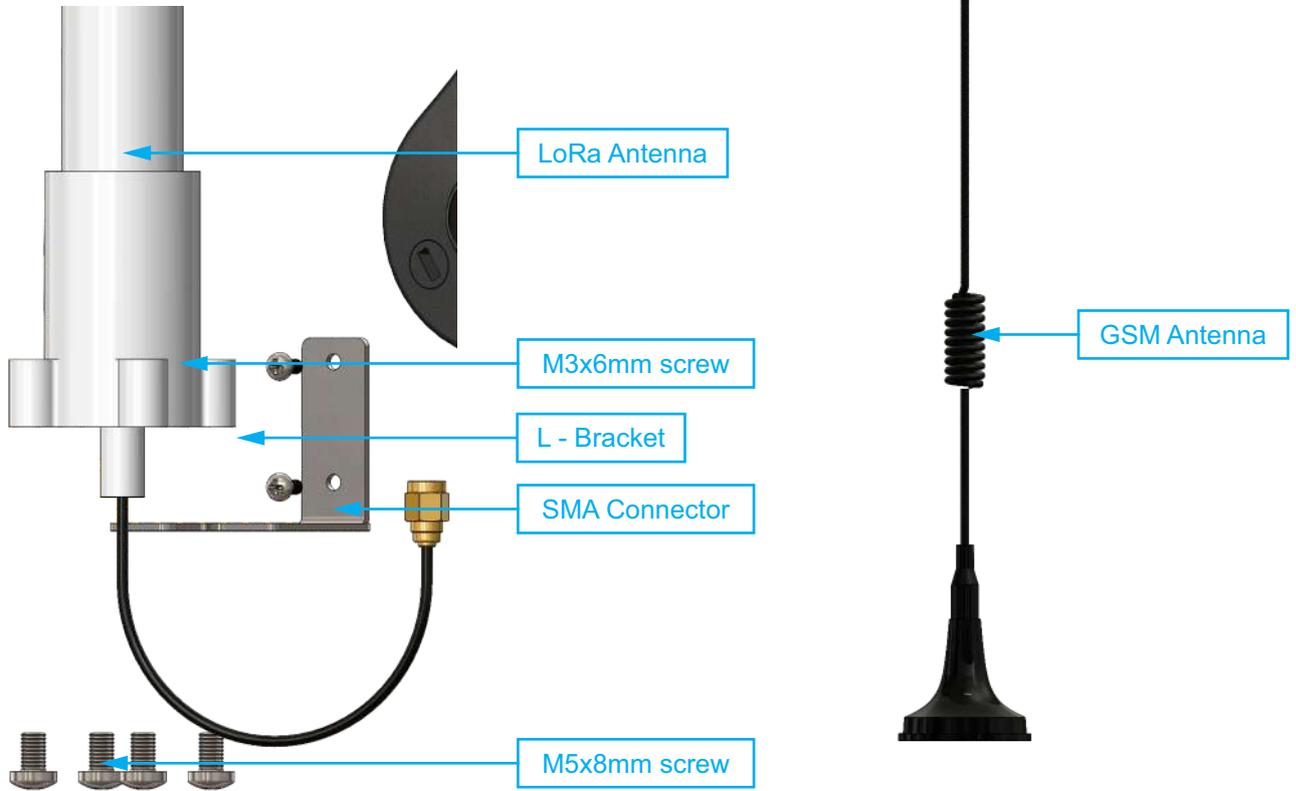
Wall Mount:

- Mount SMART unit with screw on wall.

Mounting Screw

SMART Unit

Mounting Screw

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

mobitech wireless solution
IRRIGATION AUTOMATION
MSU MOUNTING TEMPLATE

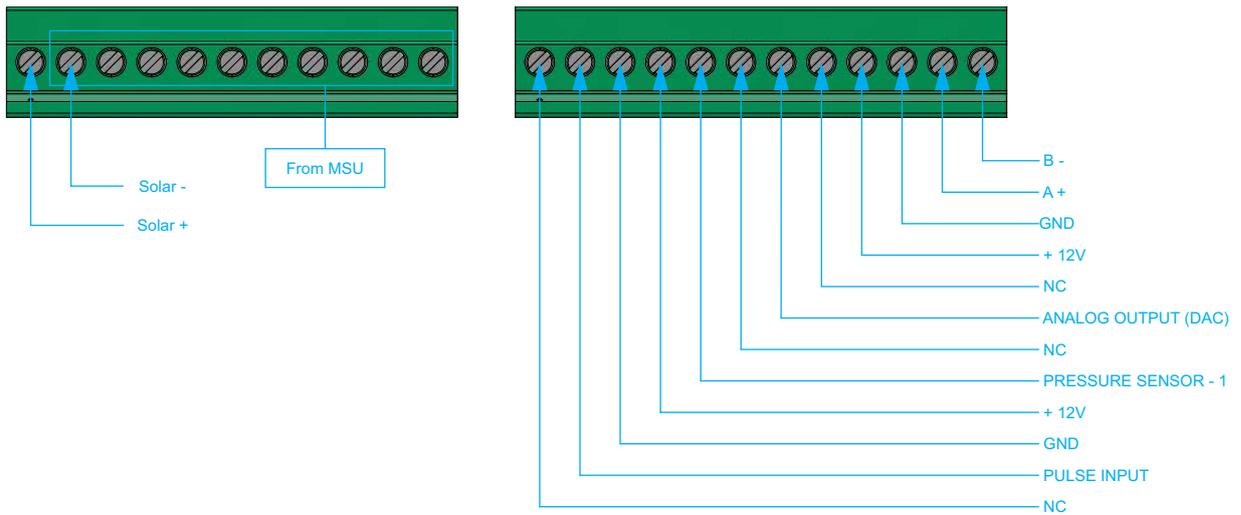Mounting Screw

Mounting Screw

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.
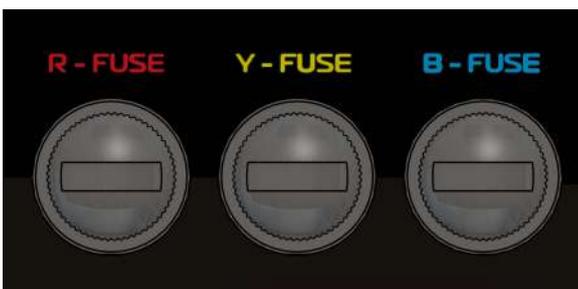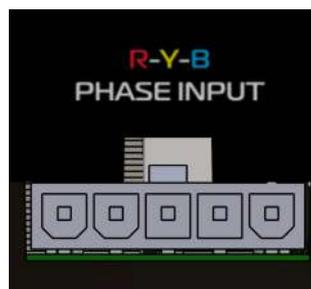- Check all connections and ensure tight of cable gland before closing top cover.

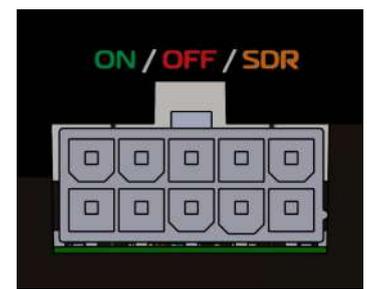Insert SIM Card Here

Battery Connector

Sensor Connector's

From MSU

Cable Glands

Connector Detail:

Solar -
From MSU
Solar +

B -
A +
GND
+ 12V
NC
ANALOG OUTPUT (DAC)
NC
PRESSURE SENSOR - 1
+ 12V
GND
PULSE INPUT
NC
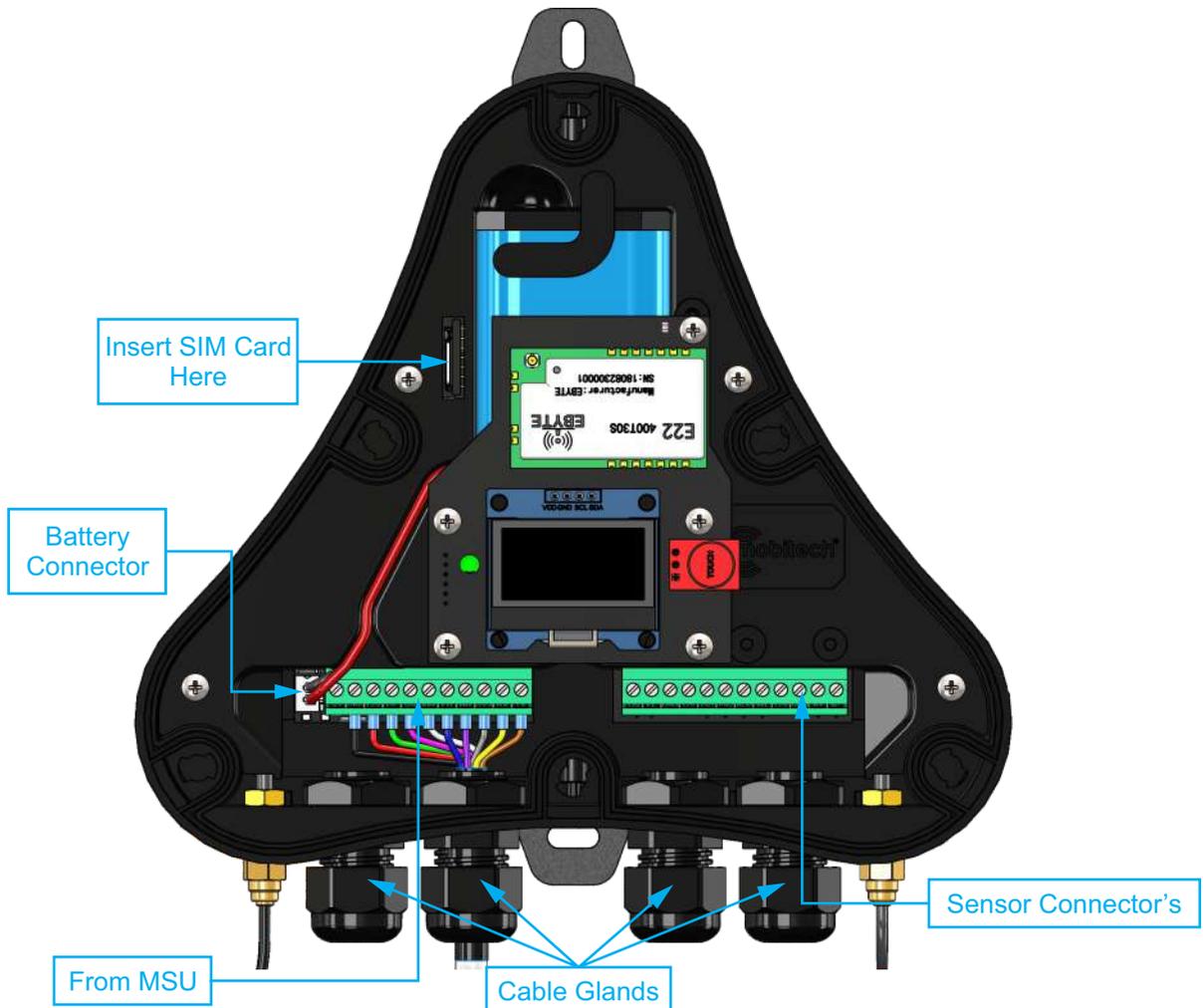
MSU Connector Detail:

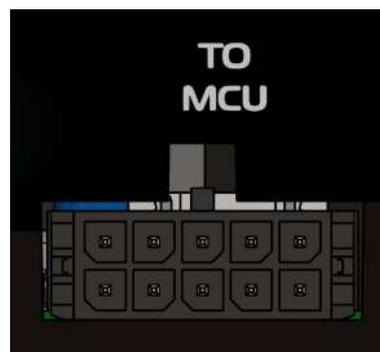

Fuse:

Power Input:

9-Pin Connector:

CT Coil:
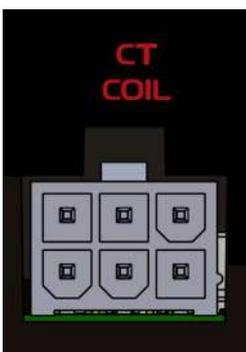
Phase Preventer:
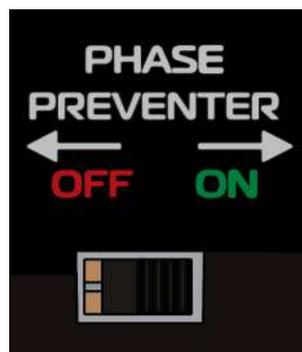
10-Pin Connector:
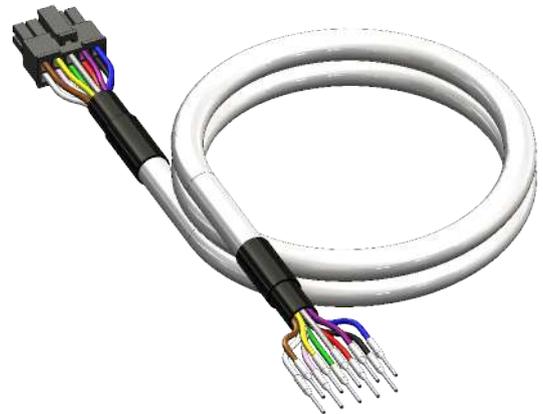
3 - Core Cable:
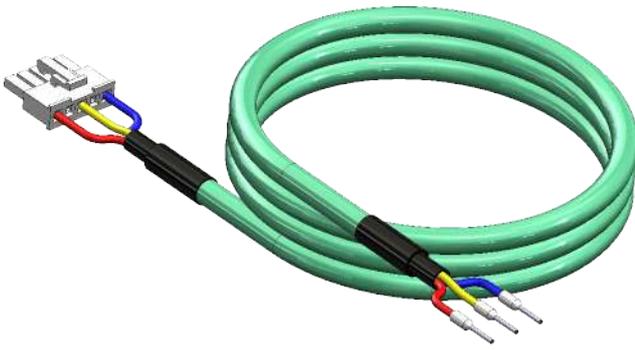
9 - Core Cable:

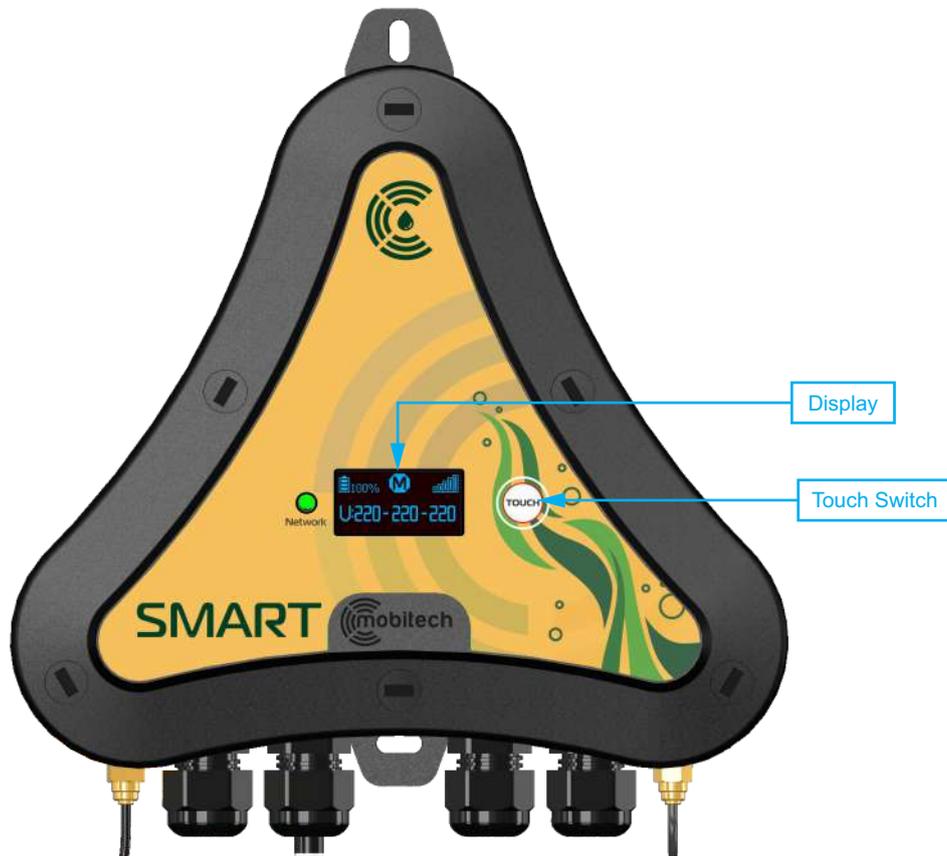**CT Coil 6 - Core Cable:**
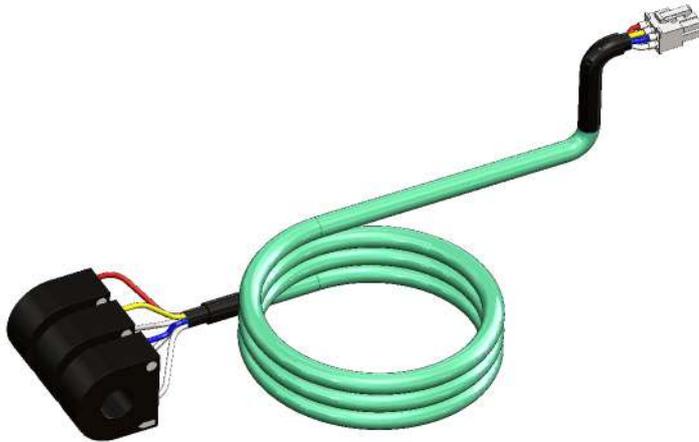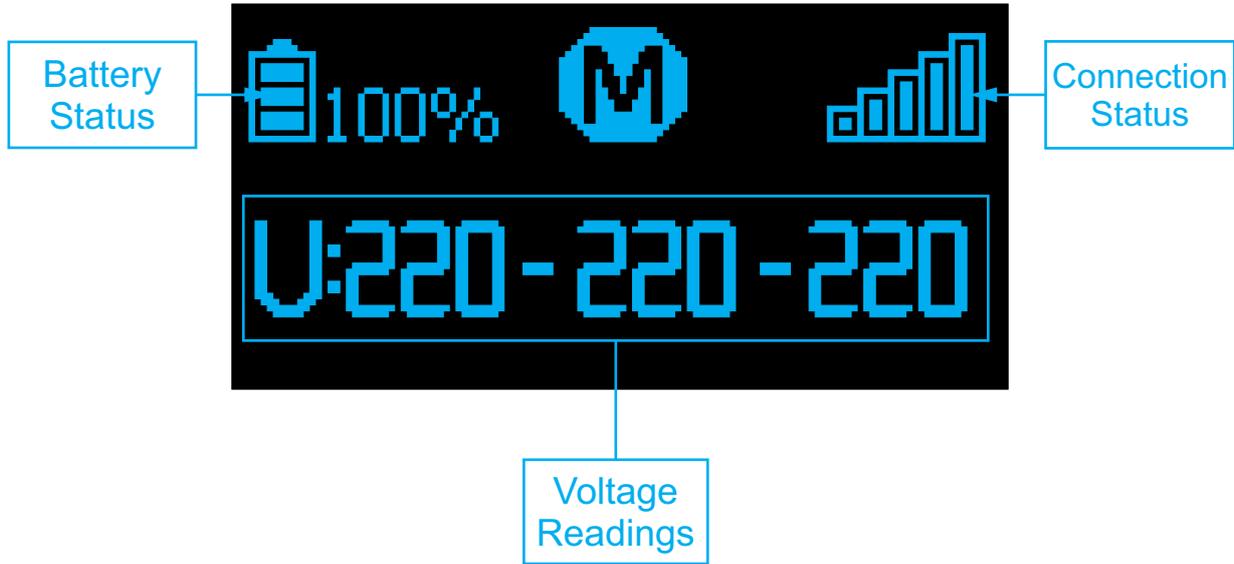

10 - Core Cable:

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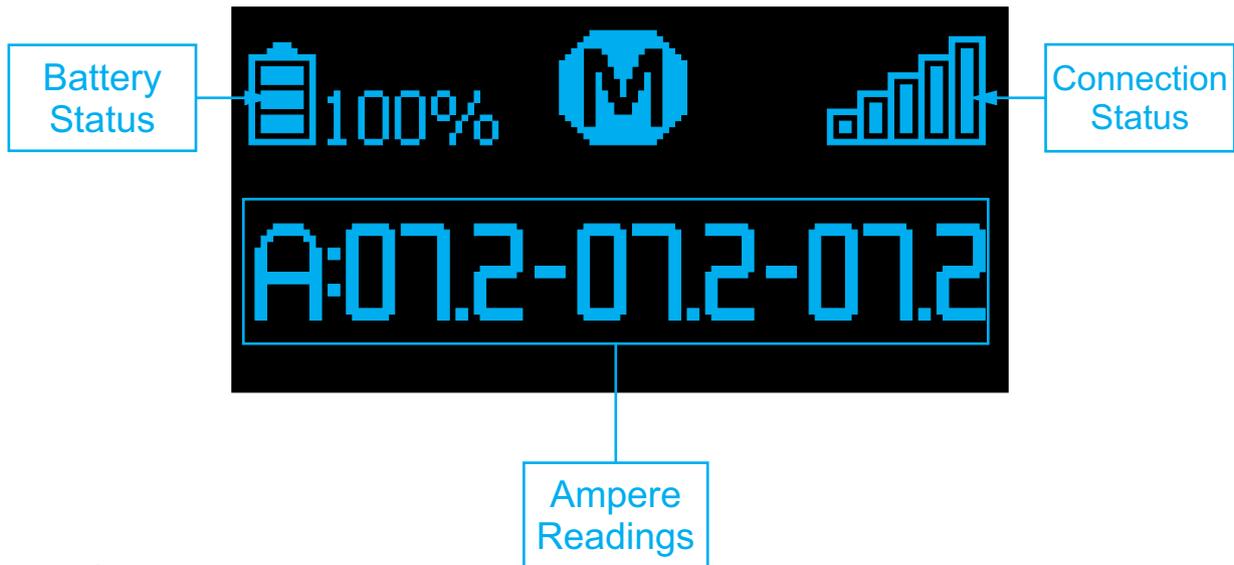- Long touch (3sec) to connect Blue tooth for configuration.

Display

Touch Switch

Display Screens:

Display - 1:

Battery Status — 100%
M
Connection Status

Voltage Readings: V:220 - 220 - 220

Display - 2:

Battery Status — 100%
M
Connection Status

Ampere Readings: A:07.2 - 07.2 - 07.2

Battery Status:

100% - It shows Internal Battery Percentage.

Connectivity:

- It shows Signal Strength.