Dcon_Ag_VCN4
(Valve Controller - 4)
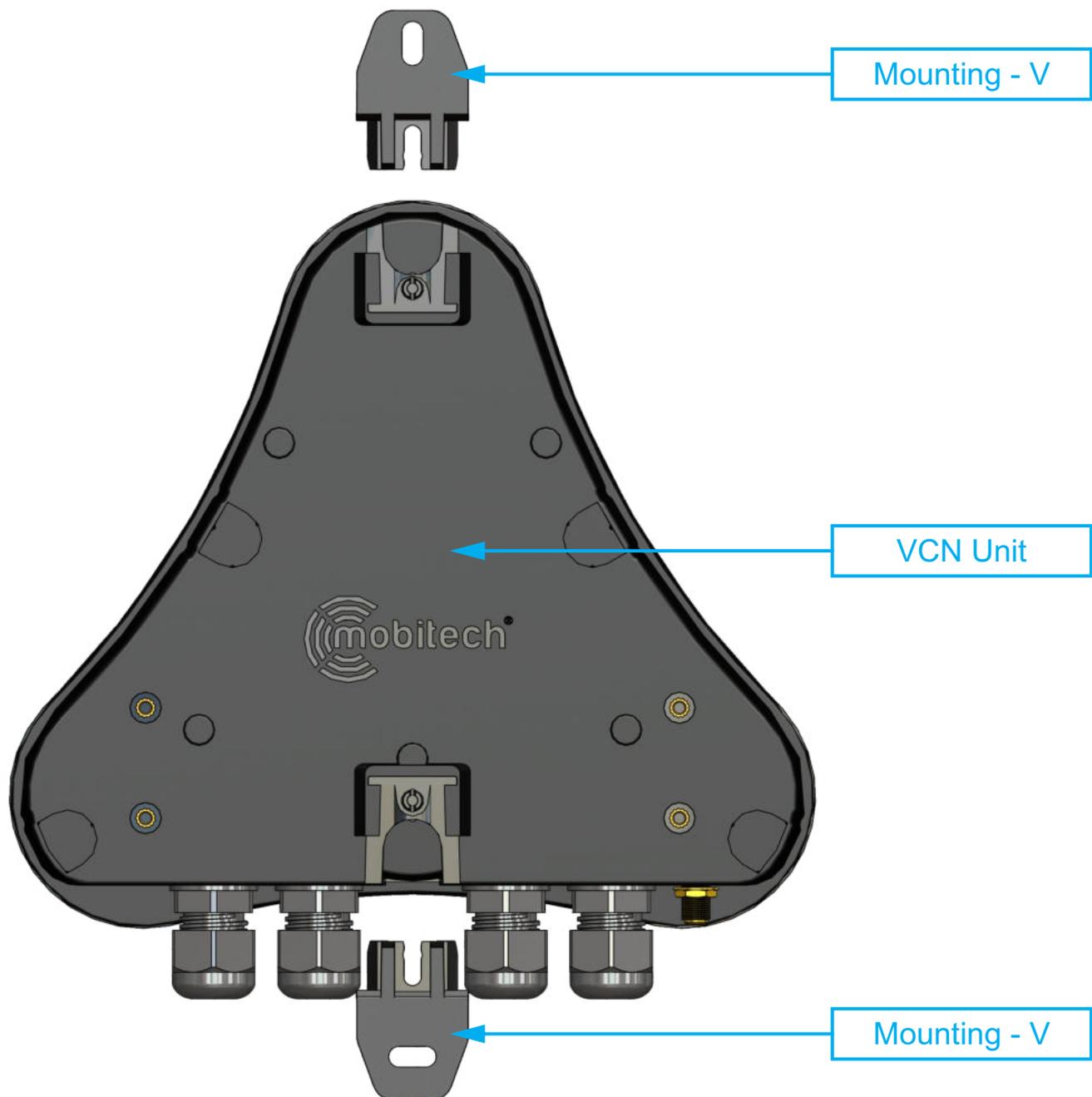### Field Installation Document

Technical Specification:

- Product Name   : VCN - 4
- Solar Panel   : 9V/6W
- Battery   : 3.7V/2.6AH
- Backup Time   : 72 Hours
- Communication   : LORA and Blue tooth 5.0
- GPS   : Inbuilt
- Number of Valves   : 4 No's
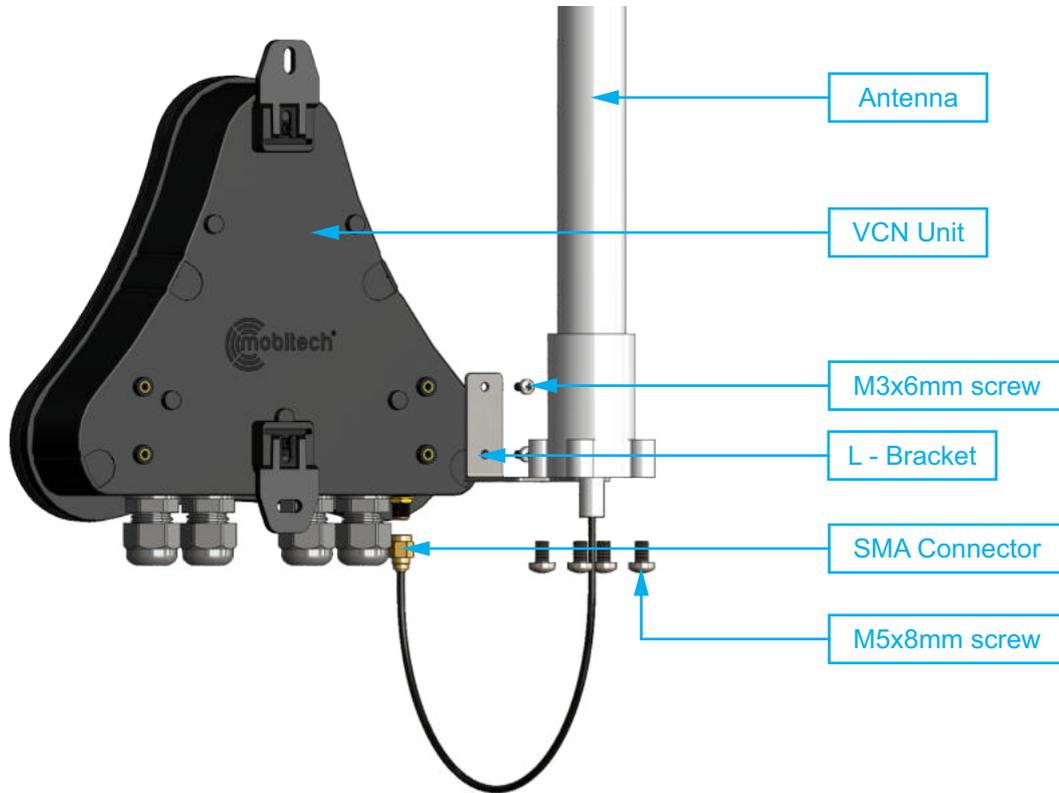
Assembly Procedure:
Mounting Assembly:

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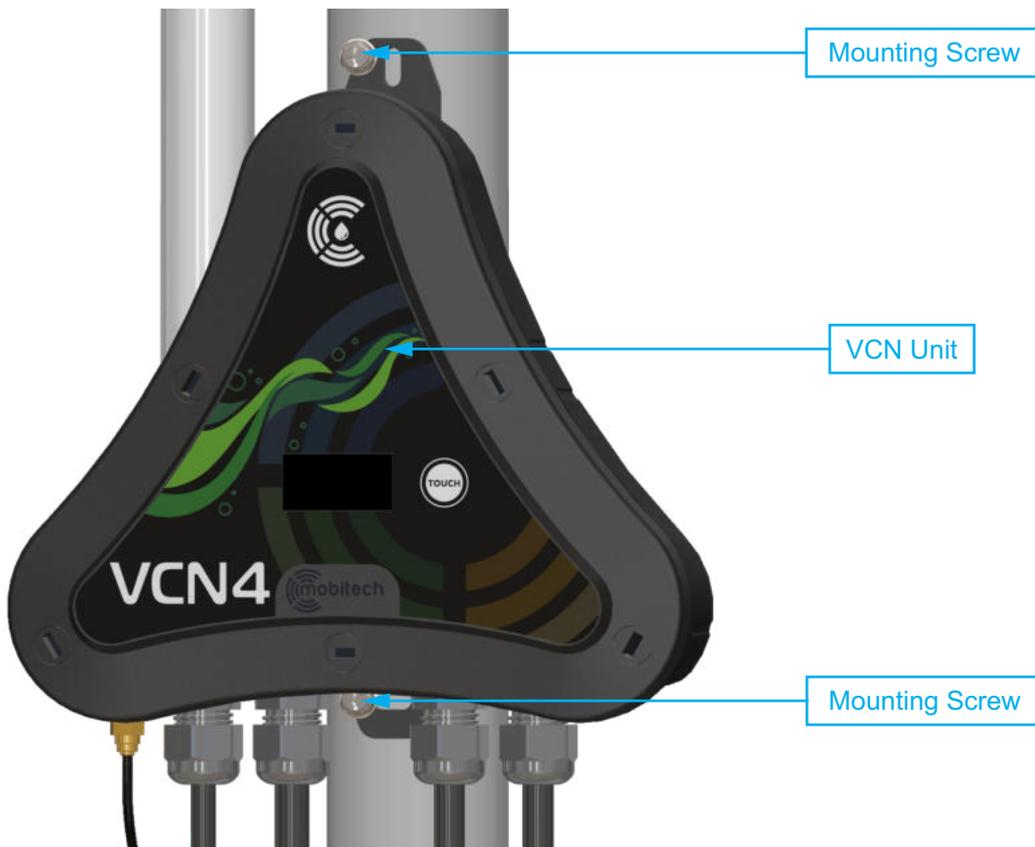

Mounting - V

VCN 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.
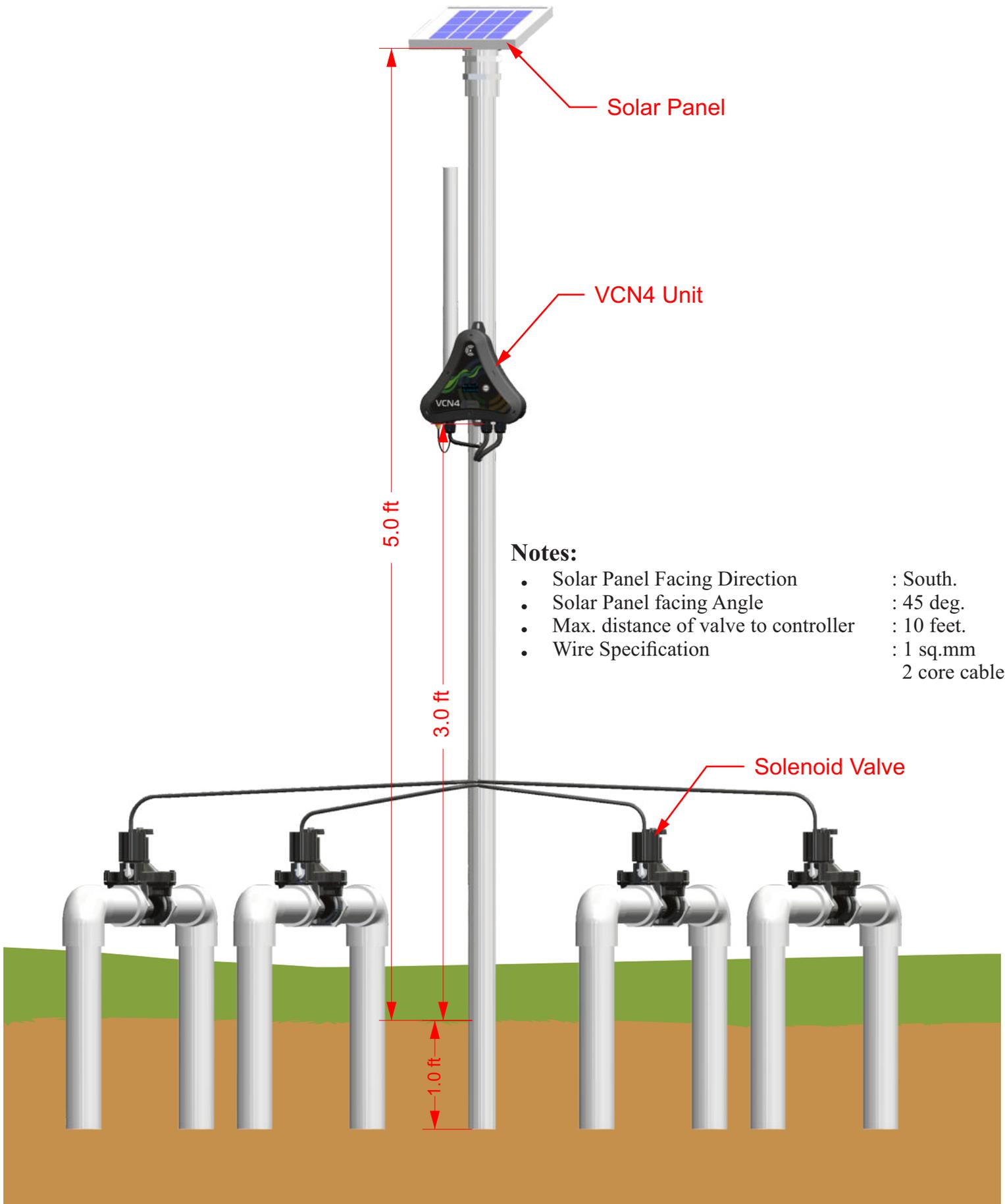- Connect antenna connector to SMA connector in VCN-4 unit.

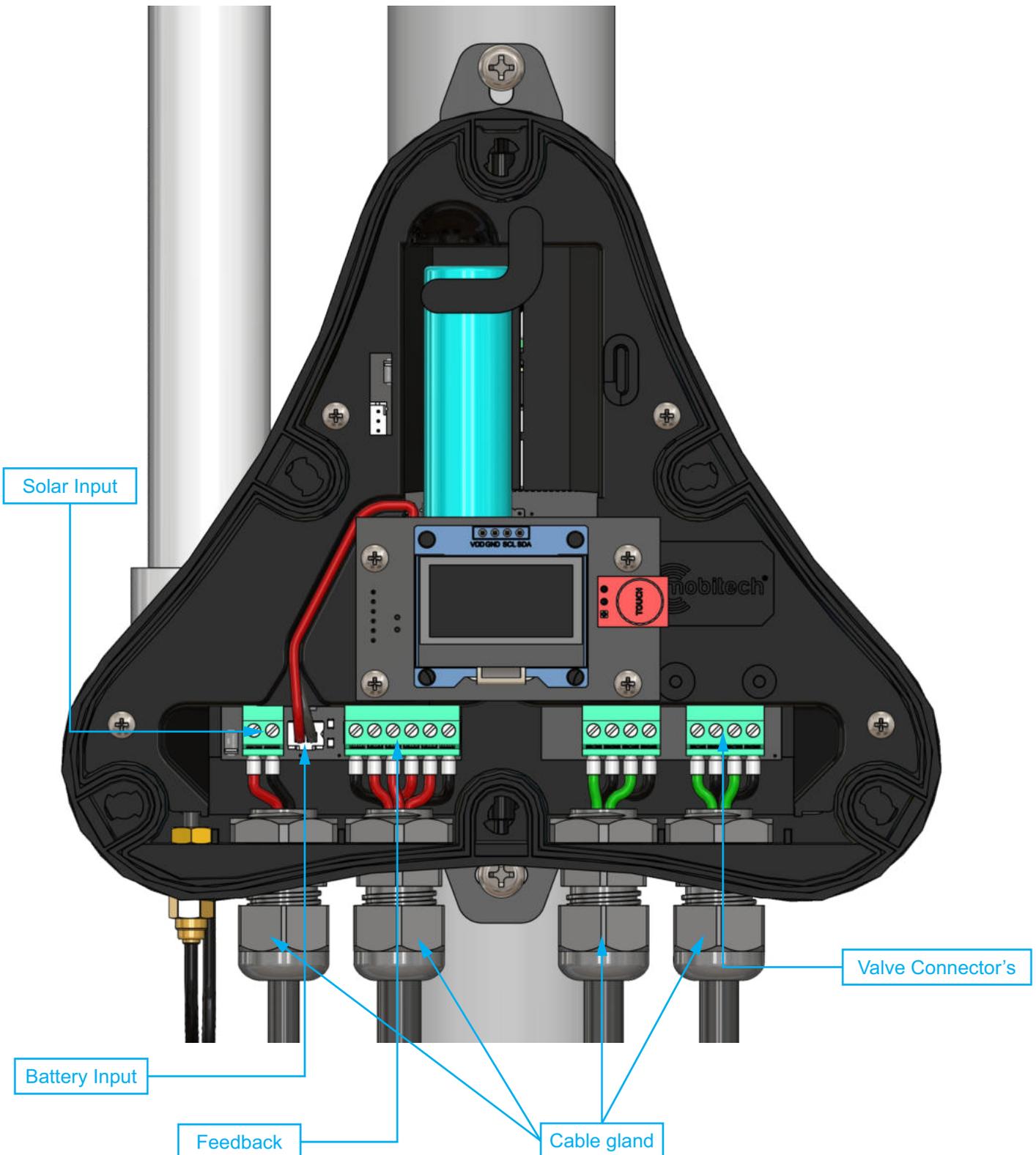

Pole Assembly:

- Mount VCN-4 unit with screw on pole.

Full Assembly:

Solar Panel

VCN4 Unit

5.0 ft

3.0 ft

1.0 ft

Notes:

- Solar Panel Facing Direction   : South.
- Solar Panel facing Angle   : 45 deg.
- Max. distance of valve to controller   : 10 feet.
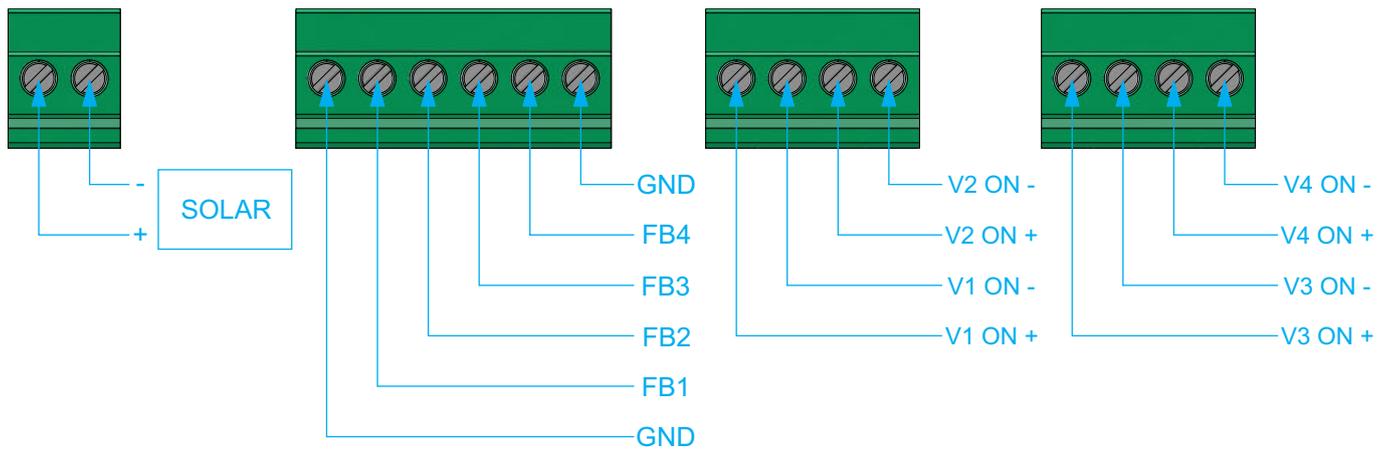- Wire Specification   : 1 sq.mm 2 core cable.

Solenoid Valve

Wiring Drawing:

- Open top cover.
- Open cable gland 1, insert solar cable gland 1 and connect cable as shown in wiring diagram.
- Open cable gland 2, insert feedback cable in to cable gland 2 and connect cable as shown in wiring diagram.
- Open cable gland 3, insert valve cable in to cable gland 3 and connect cable as shown in wiring drawing.
- Open cable gland 4, insert valve cable in to cable gland 4 and connect cable as shown in wiring drawing.
- Connect battery connector as shown in picture.
- Check all connections and ensure tight of cable gland before closing top cover.
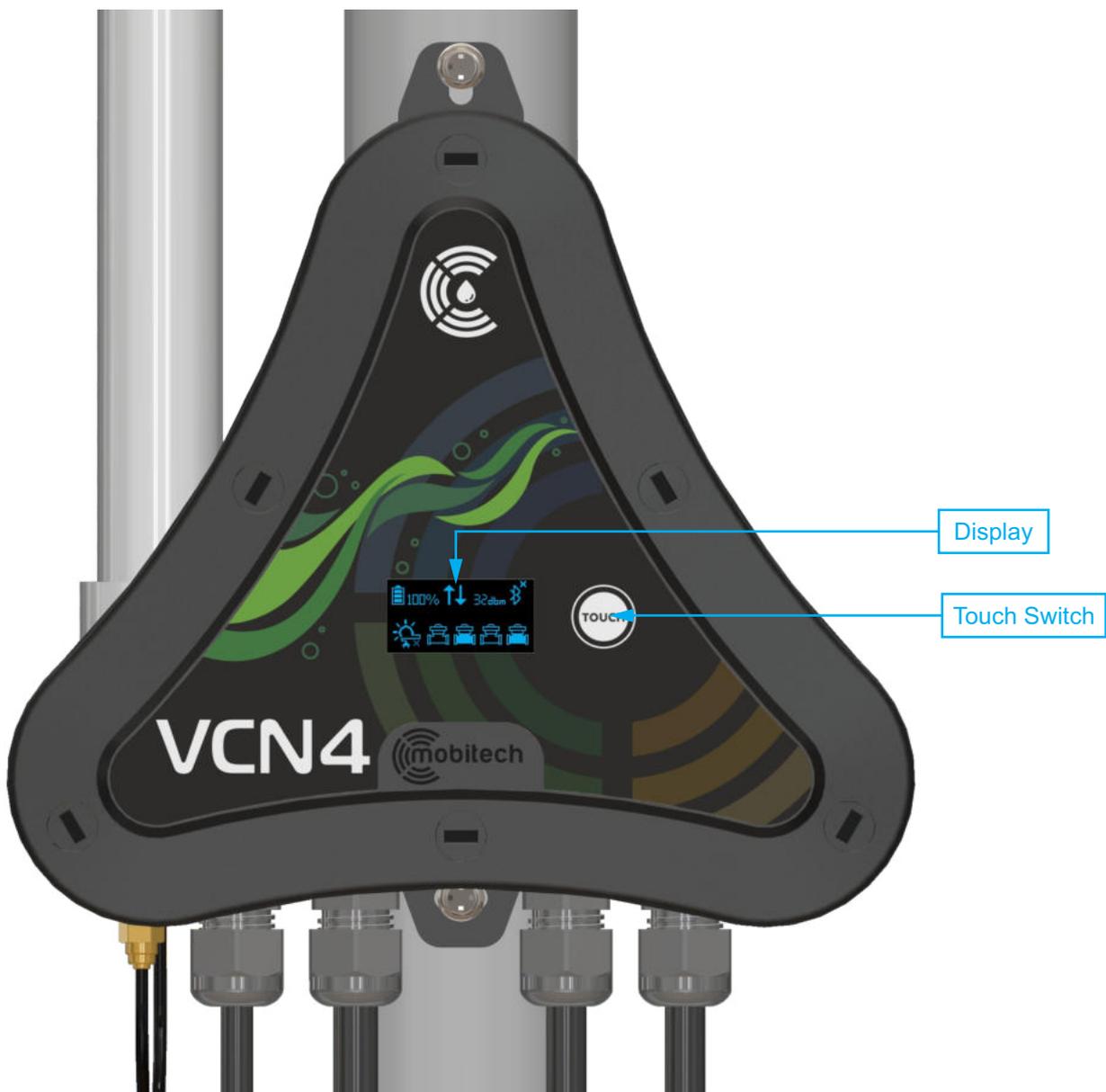
Connector Detail:

- (SOLAR)
+ (SOLAR)

GND
FB4
FB3
FB2
FB1
GND

V2 ON -
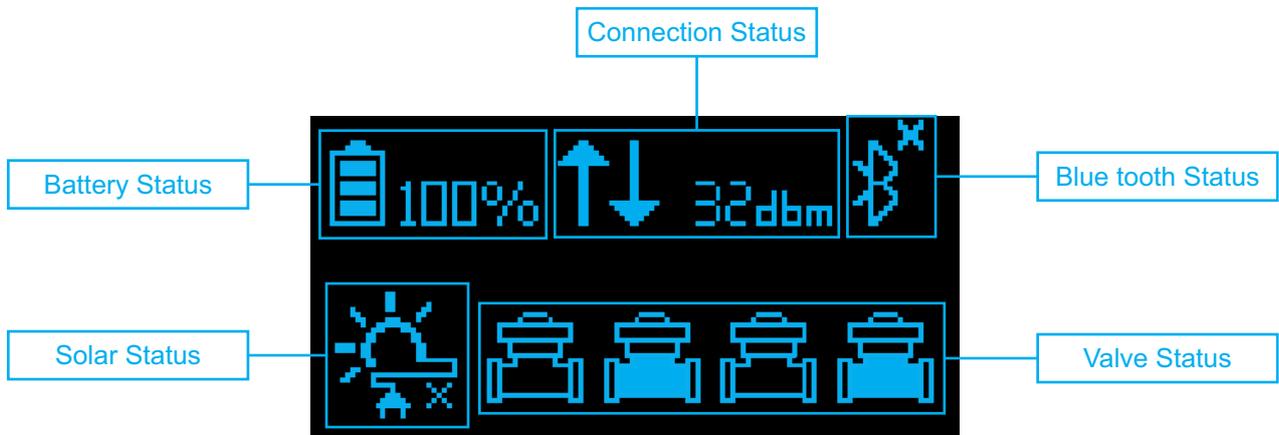V2 ON +
V1 ON -
V1 ON +

V4 ON -
V4 ON +
V3 ON -
V3 ON +

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

VCN4 (mobitech)

Display Screen:

Connection Status

Battery Status

Blue tooth Status

Solar Status

Valve Status

Battery Status:

- It shows Internal Battery Percentage.

Connectivity:

- It shows Connectivity Strength.

Blue tooth Status:

- Blue tooth Disconnected.   - Blue tooth Stand-by(blink).   - Blue tooth connected.

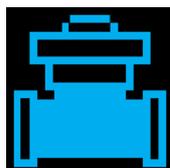**Solar Status:**

- Solar Not Connected.   - Solar Connected (Blink).

Valve Status:

- Valve OFF.   - Valve ON.