

Dcon_Ag_MCU (Motor Control Unit) Field Installation Document





Technical Specification:

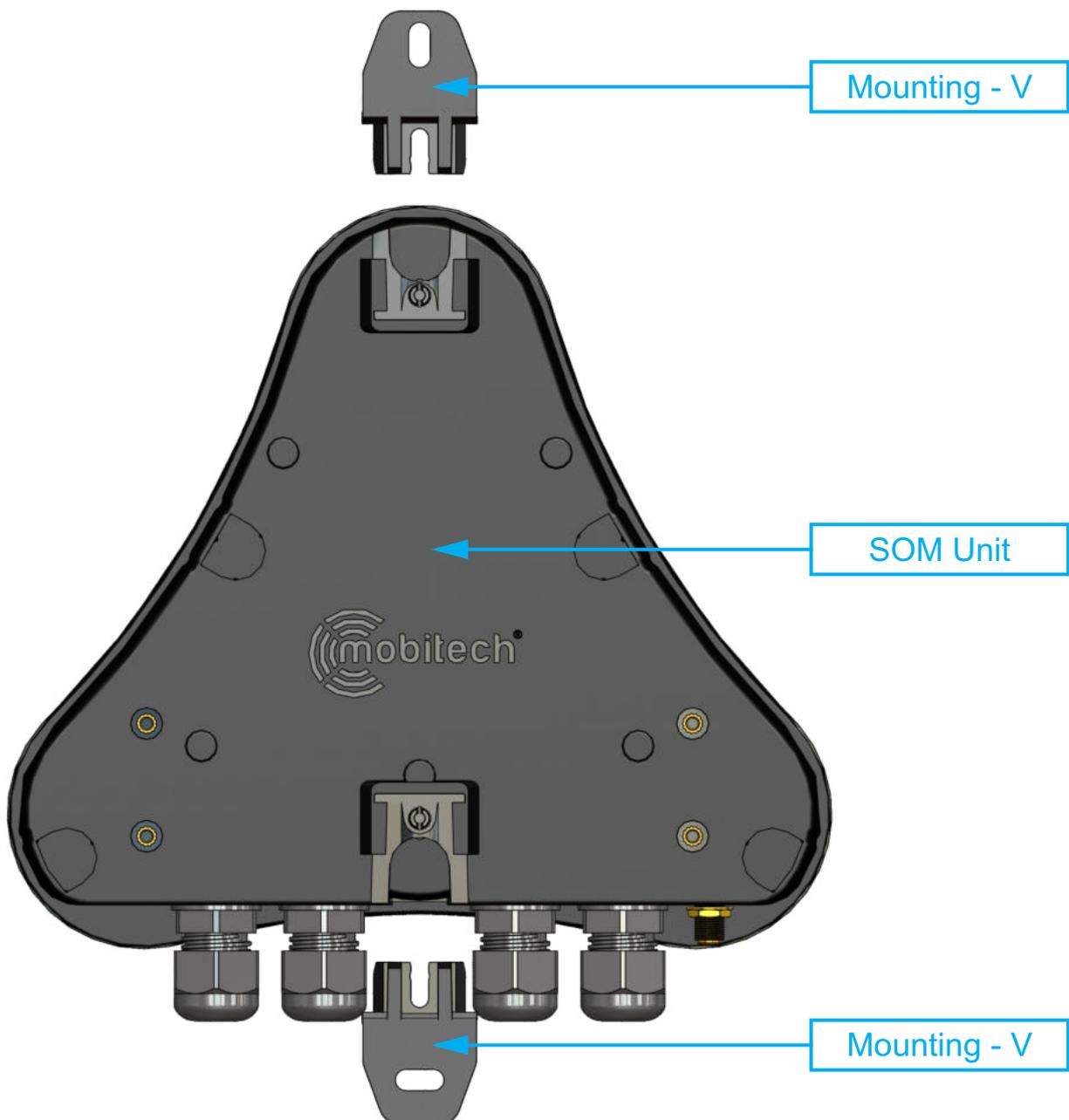
- Product Name : MCU (Motor Control Unit)
- Input Voltage 3 Phase : 360V - 450V AC
- Input voltage 1 Phase : 180V - 240V AC
- Default CT Coil : 50A
- External CT Coil : 500A
- Battery : 3.7V / 5.2Ah
- Backup Time : 24 Hours
- Communication : LORA and Blue tooth 5.0
- Compatibility : Suitable for all types of Starters and Panels.
- GPS : Inbuilt
- Fuse Protection for each Phase

Assembly Procedure:

- Panel Board Size : 2.0 x 1.5 Feet

Mounting Assembly:

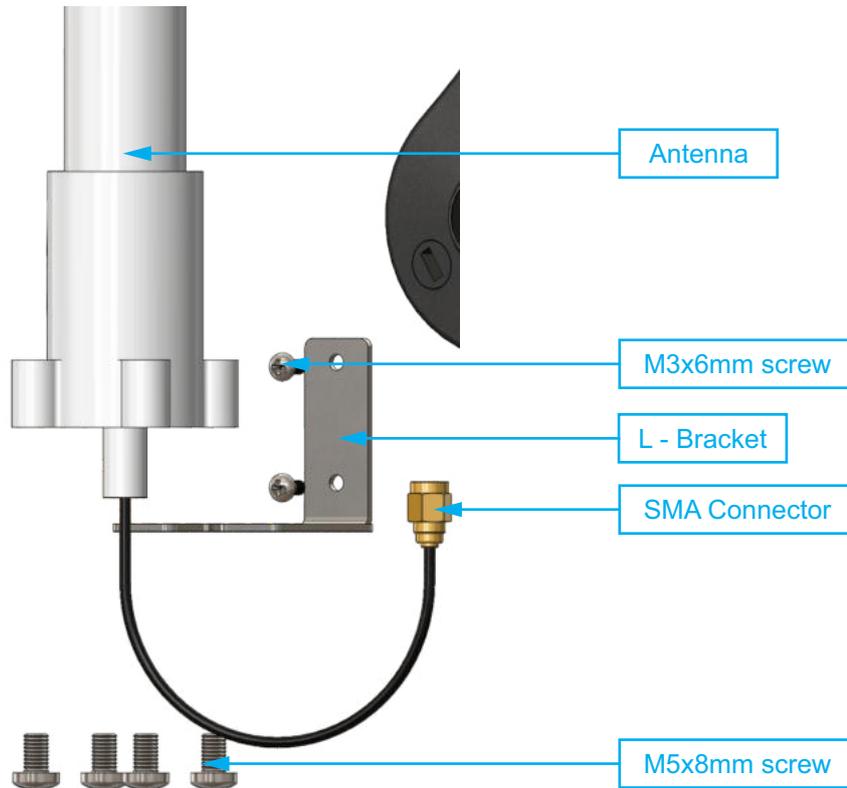
- Place V slot mounting at top side.
- Place H slot mounting at bottom side.





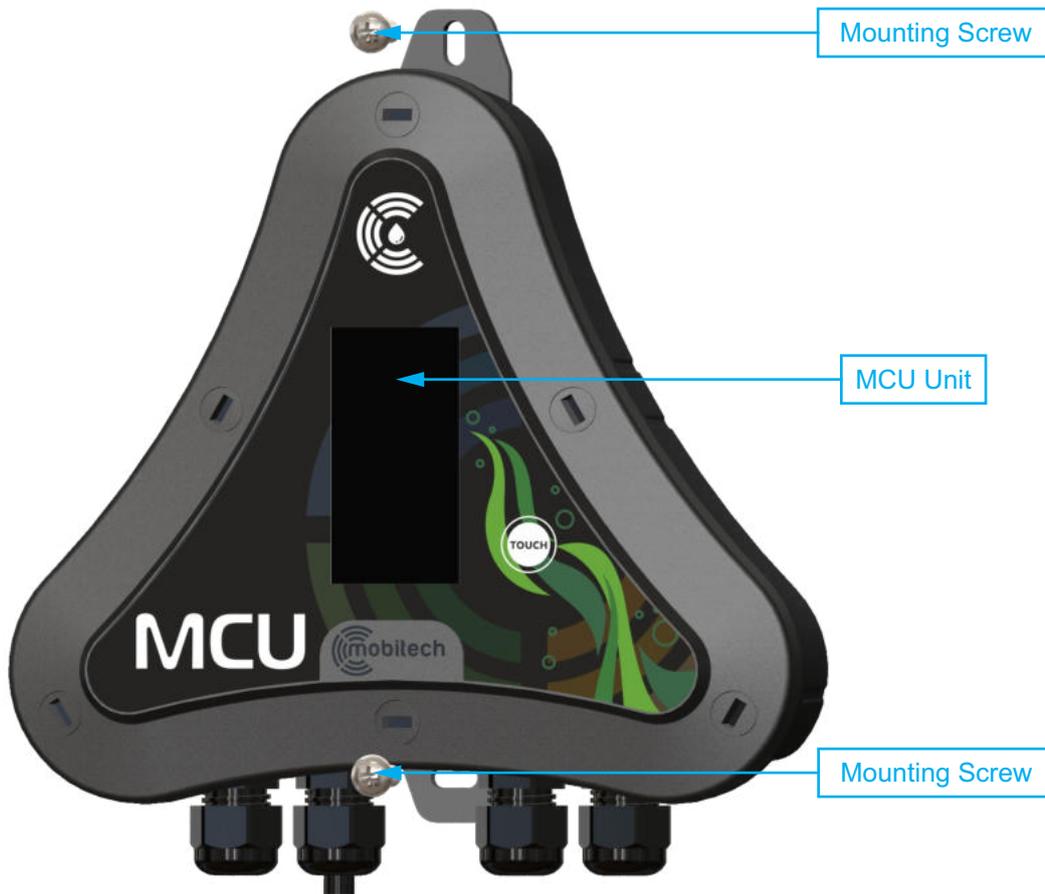
Antenna Assembly:

- 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 MCU unit.



Wall Mount:

- Mount MCU unit with screw on pole.



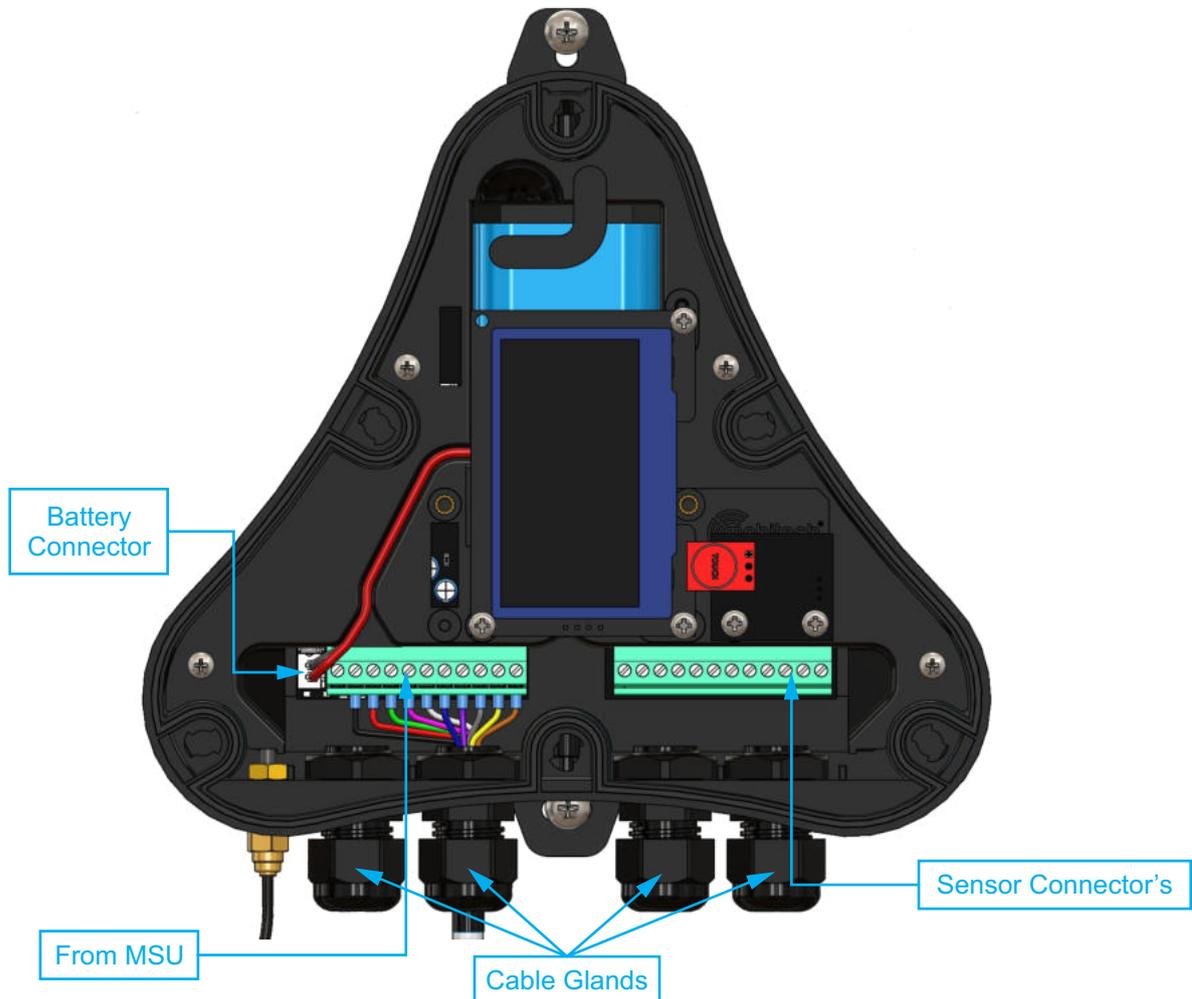


- Mount MSU unit with screw on wall using marking template given with unit.

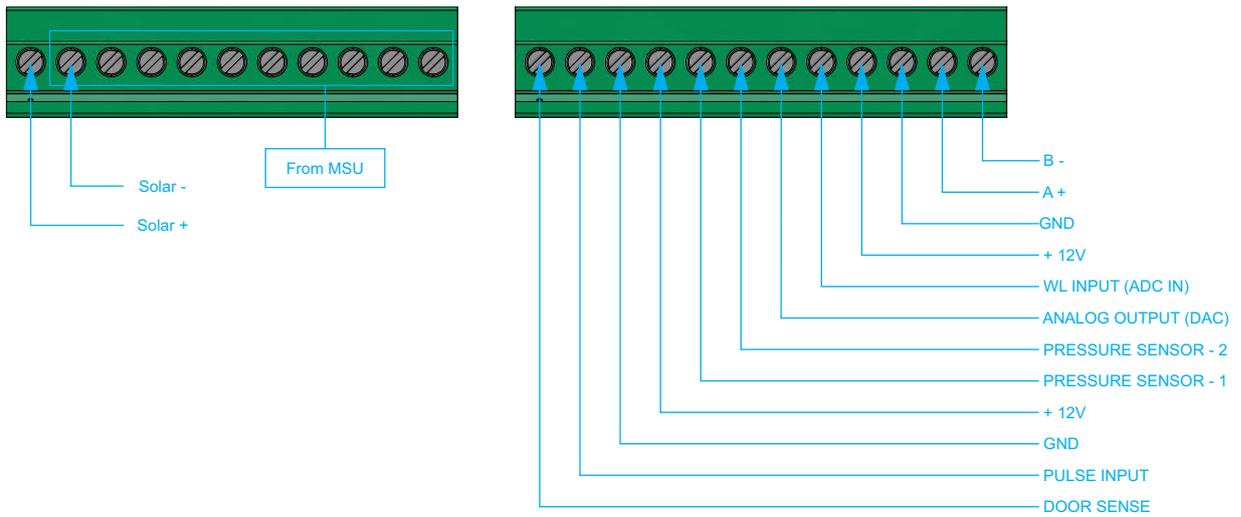


Wiring Drawing:

- 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.



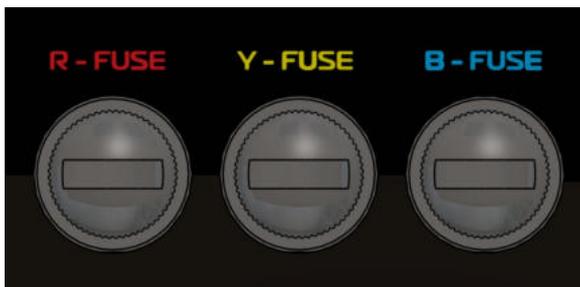
Connector Detail:



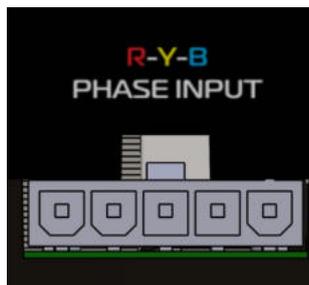
MSU Connector Detail:



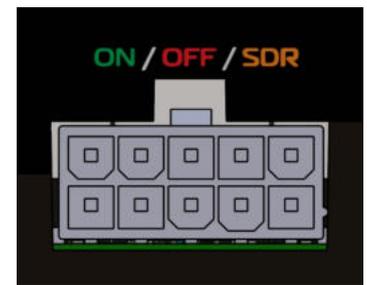
Fuse:



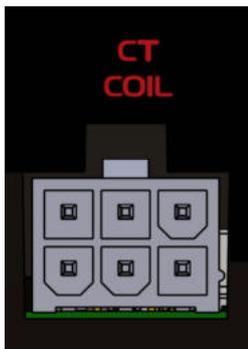
Power Input:



9-Pin Connector:



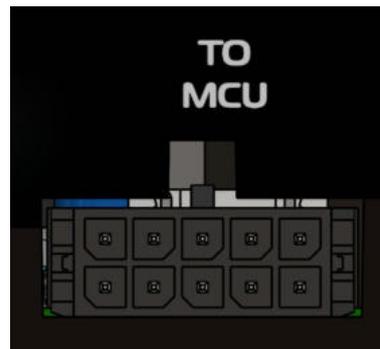
CT Coil:



Phase Preventer:

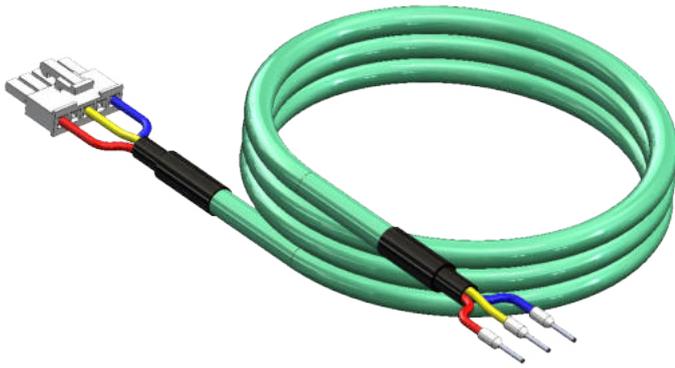


10-Pin Connector:

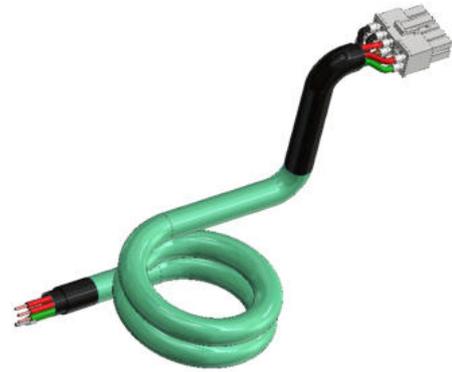




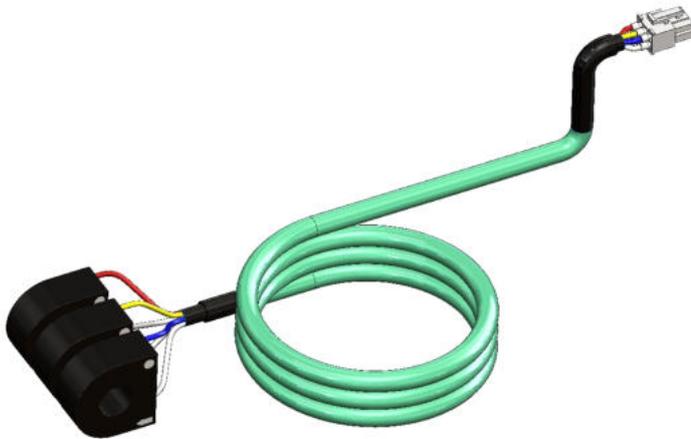
3 - Core Cable:



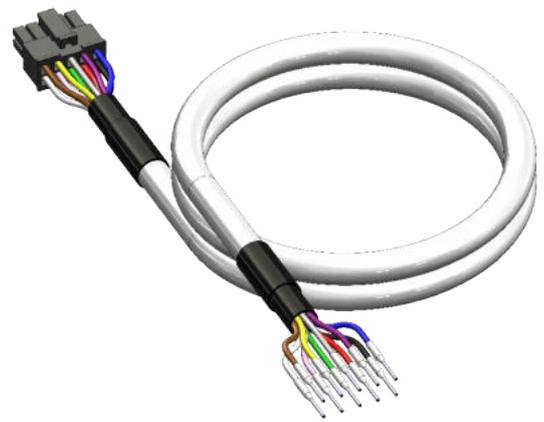
9 - Core Cable:



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:

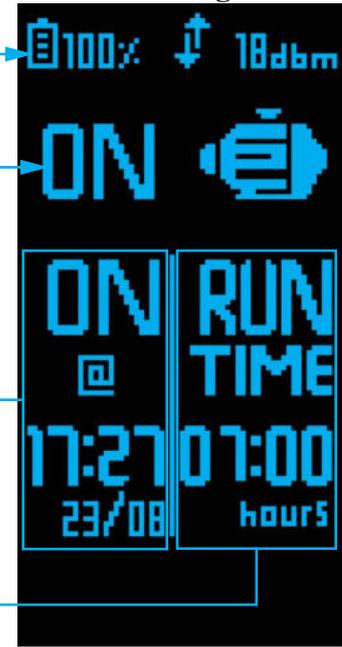
Phase Readings:



Connection Status

Voltage Readings

Motor Running Status:



Battery Status

Motor Status

Motor Running Date & Time

Motor Running Hours

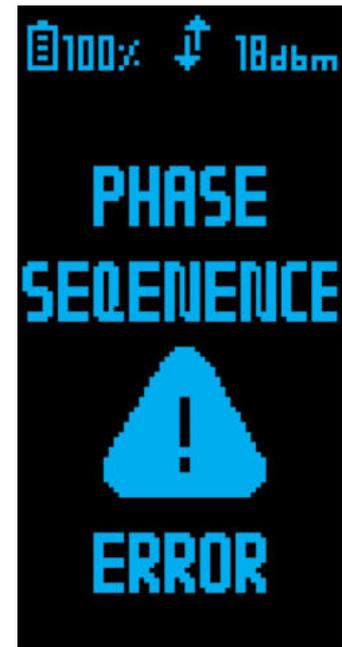
Sensor Readings:



Pressure Sensor Readings

Flow Sensor Readings

Phase Failure:



Battery Status:



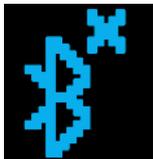
- It shows Internal Battery Percentage.

Connectivity:



- It shows Connectivity Strength.

Blue tooth Status:



- Blue tooth Disconnected.



- Blue tooth connected.