

To plug in the Guardian, align the notches on the connectors and finger tighten. Only twist the metal connector.



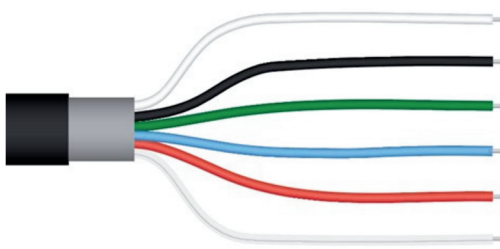
LED Status Indication (Disableable)

- Connected to Device
- Currently Connected to Device
- Modbus Communication
- Data Collected

BLUETOOTH INSTRUCTIONS

1. Open the Apogee Connect mobile app. To add an instrument, tap on the + icon in the upper corner.
2. Once discovered, the Guardian will flash 3 times, and the device name will appear. Tap on it to pair.
3. If desired, rename the Guardian. Hit ADD.
4. Live data will show on the app's main display. Select your device to view more data and settings.
5. Subsequent connections are automatic as long as you are within range. Reconnect if needed.

MODBUS INSTRUCTIONS



- White: RS-232 RX / RS-485 Positive
- Black: Ground
- Green: Select (Switch between RS-232 and RS-485)
- Blue: RS-232 TX / RS-485 Negative
- Red: Power 5.5V-32V DC
- Clear: Shield/Ground

Address Float Registers

- 0-1 PAR
- 2-3 Temperature
- 4-5 Relative Humidity
- 6-7 CO₂
- 8-9 Pressure
- 10-11 VPD
- 12-13 Dew Point
- 40-41 Slave Address (Read or Write)
- 72-73 LED control (0 = off, 1 = on)
- 74-75 Fan duty cycle in %
(minimum 40%, 0 = off)

Address Integer Registers

- 100 PAR (multiplied by 10)
- 101 Temperature (multiplied by 100)
- 102 Relative Humidity (multiplied by 10)
- 103 CO₂
- 104 Pressure (multiplied by 100)
- 105 VPD (multiplied by 100)
- 106 Dew Point (multiplied by 100)
- 136 LED control (0 = off, 1 = on)
- 137 Fan duty cycle in %
(minimum 40%, 0 = off)

MAINTENANCE

- Clean off moisture or deposits from the domed diffuser:
 - Dust or organic deposits: use water or window cleaner and a soft cloth or cotton swab.
 - Salt deposits: dissolve with vinegar and remove with a soft cloth or cotton swab.
- We recommend recalibration every two years. You can check sensor accuracy at clearskycalculator.com
- When treating the area with aerosols or chemicals, use fan controls to temporarily disable the fan.
- Avoid spraying or misting the Guardian.
- Ensure there is adequate space underneath the Guardian as covering the bottom of the Guardian will stress the fan.