OPI BLUE

READ ME FIRST
Guide to Getting Started
Thank you for purchasing your new OPI Blue System!

Before setting up your new product, please:

- Create an account at connect.opiblue.com
- Download the OPI Blue app from the Apple App store, and
- Download and review the Installation and Operations iBooks and all documentation included with this package.

OPI Blue Contact Info:
WWW.OPIBLUE.COM
1-800-661-1055 (opt. 2)
CustomerCare@OPIsystems.com

If you have any questions, please contact OPI prior to installation.

**We suggest you complete the installation in the following order:**

1. Create an account at connect.opiblue.com
2. Download the OPI Blue app from the Apple App store
3. Download and review the Installation and Operation iBooks from connect.opiblue.com
4. Read through all literature included with the Gateway
5. Follow the Installation manual provided, and open each box in the specified order

Enjoy using your new OPI Blue System, and relax knowing your grain is being safely managed.

Installation Manual

Tools Needed:

7/16" Wrench
Drill with 3/8" Driver
Phillips Screwdriver
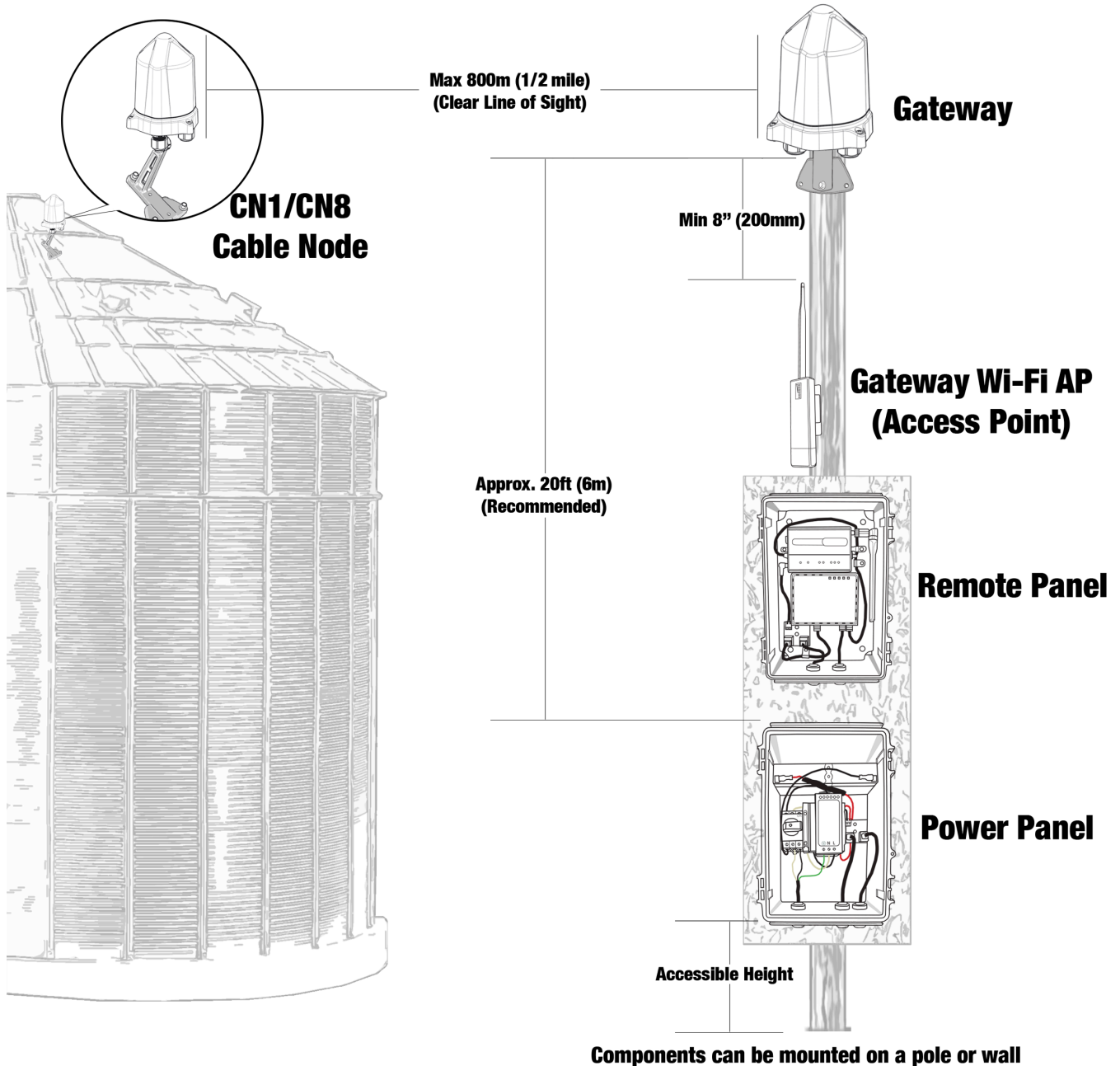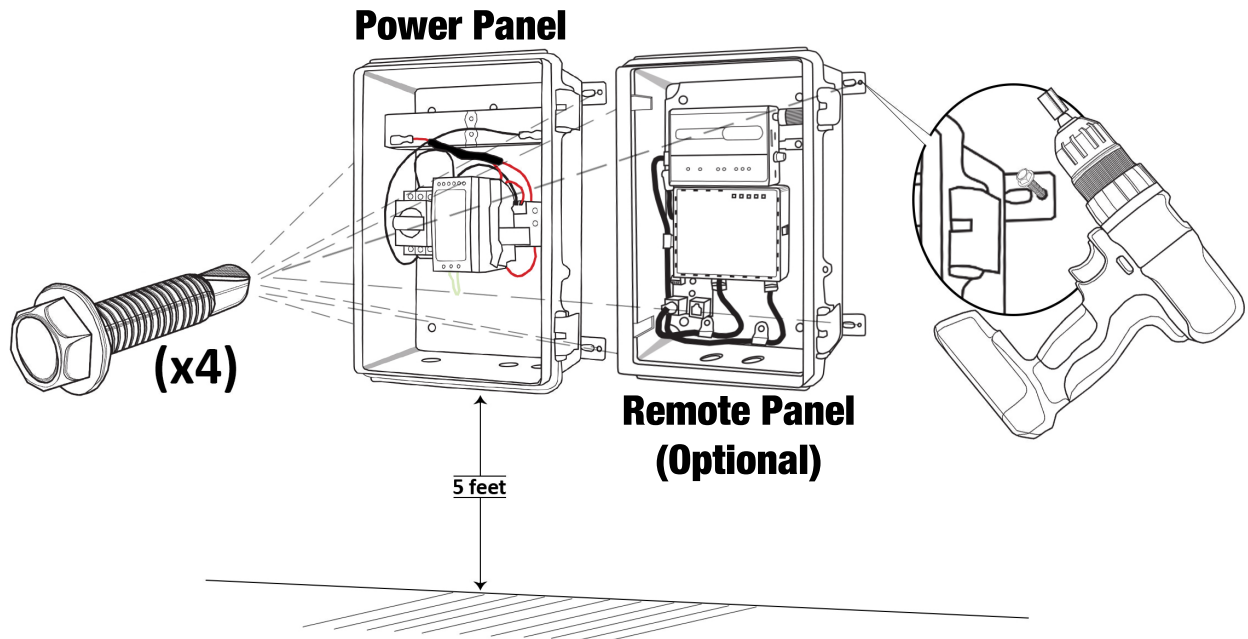**Flathead Screwdriver**
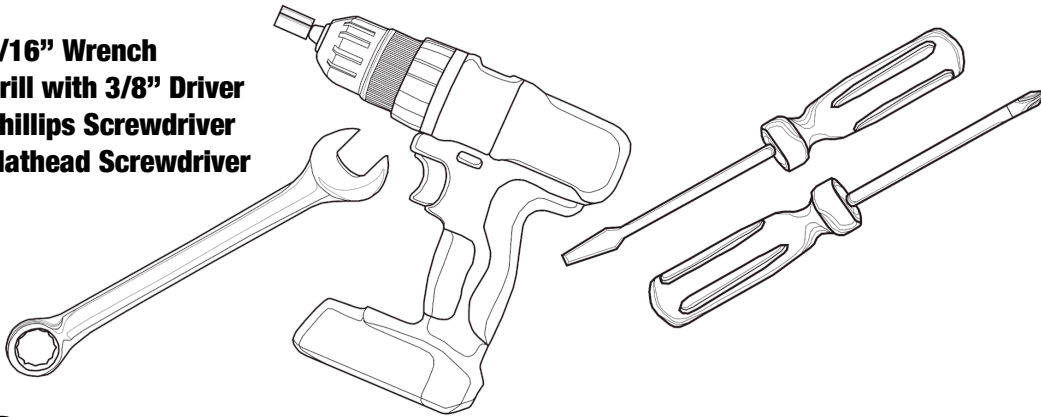
Steps:

1. **Site Overview (p3)**
2. **Mount the Power Panel (and Remote Panel if included) (p4)**
3. **Fill out information on the Site Log (p4)**
4. **Mount Gateway (p5-6)**
5. **Mount Gateway Wi-Fi AP (Access Point) (p6)**
6. **Wire the system together (Installation instructions located with Power Panel and Remote Panel Enclosures) (p7)**
7. **After installation is complete, turn on the Power Panel (p7)**
8. **Fill out the Site Log for Cable Nodes (p7)**
9. **Removing the Cable Node jumper (p8)**
10. **Mount Cable Nodes (p9)**

Site Overview

Max 800m (1/2 mile)
(Clear Line of Sight)

Gateway

CN1/CN8
Cable Node

Min 8" (200mm)

Gateway Wi-Fi AP
(Access Point)

Approx. 20ft (6m)
(Recommended)

Remote Panel

Power Panel

Accessible Height

Components can be mounted on a pole or wall

Step 2. Mount the Power Panel (and Remote Panel if included)

Power Panel

(x4)

Remote Panel
(Optional)

5 feet

For Installation instructions – See the Power Panel and Remote Panel documents located on p11 and p12 and in the product's boxes

Step 3. Fill out the Site Log *(Located on p13-14)*

    a. Fill out the Gateway Node's installed location on the Site Log

    b. Note the username and password to fill in later

    c. Remove one of the information labels from bottom of Gateway and apply it to the Site Log
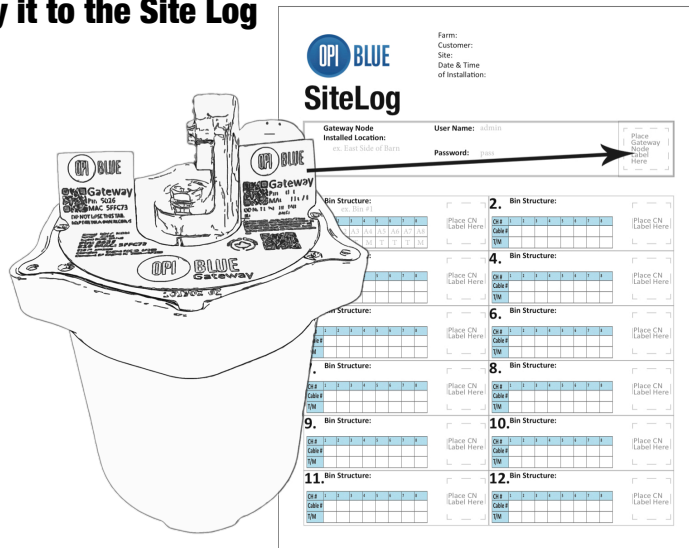
Step 4. Mount the Gateway

a. Mount the Gateway foot first before attaching Gateway, or alternatively, you can have the Gateway loosely connected to the base (see step b.) so that it can swivel up and down during the mounting process.
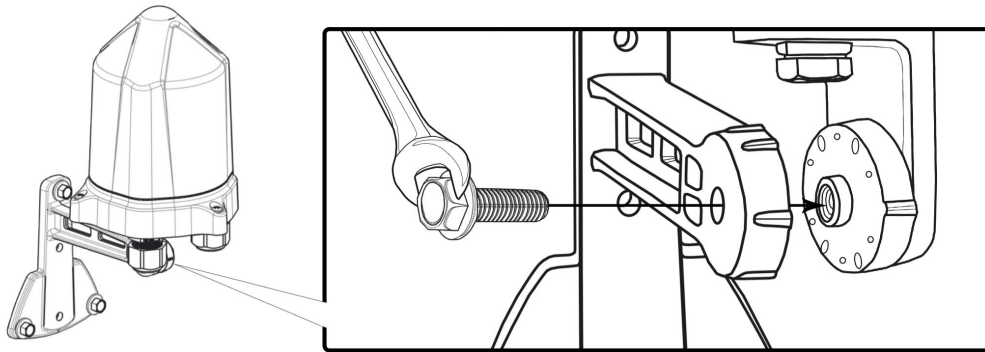
Peel backing and stick into place before bolting

(x3)

3/8

25ft
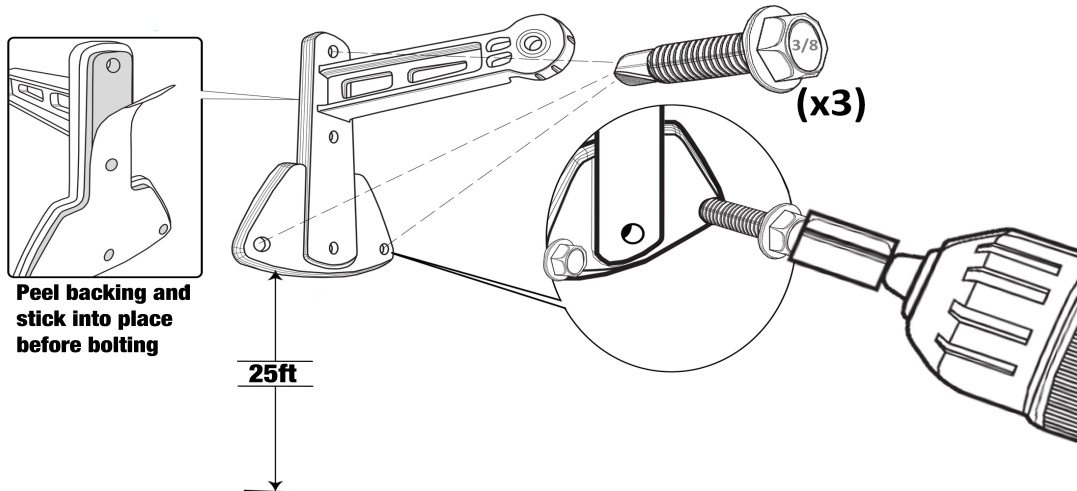
b. Attaching Gateway to Mounting Foot

** The Ethernet cable may be already attached to the Gateway. Leave enough length of cable to reach the Power Panel and plug in comfortably.*
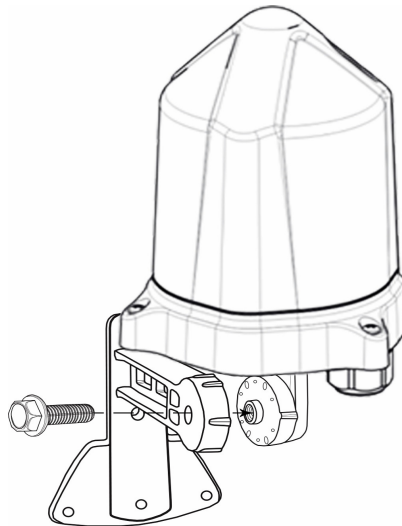
c. Align Gateway vertically up and down and tighten bolt (Max 6ft lb, 8N-m)

Step 5. Mount Gateway Wi-Fi AP (Access Point)

    a. Placement must be a minimum of 8" (200mm) from the Gateway

* The Ethernet cable may be already attached to the Gateway Wi-Fi AP. Leave enough length of cable to reach the panel and plug in comfortably.
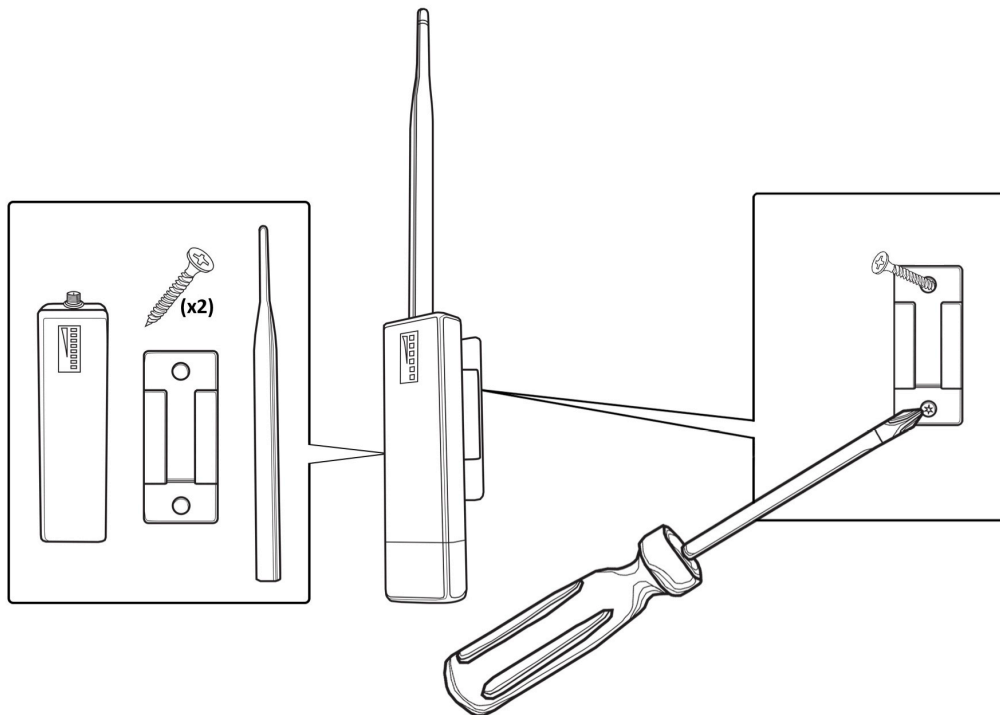
Step 6. Wire the system together
(Installation instructions for the Power Panel (p11) and the Remote Panel Enclosure (p12) are also located in their respective boxes.)

Step 7. After installation is complete, turn on the Power Panel
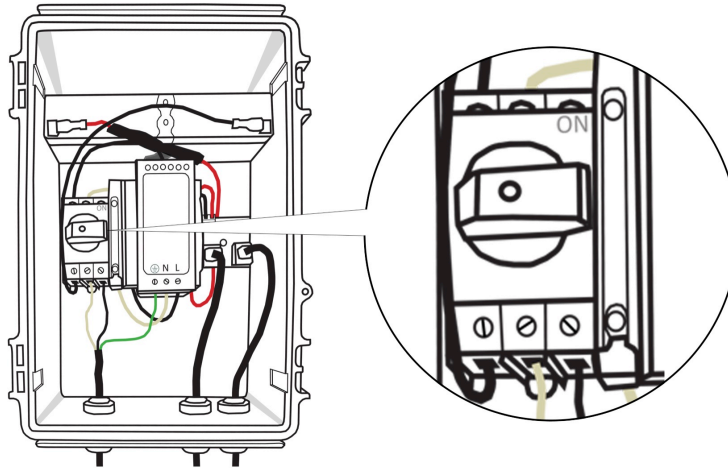
Step 8. Fill out the Site Log for the Cable Nodes
Before installing Cable Nodes, follow the next steps closely:

    a. Determine which bin(s) the node(s) will be located

    b. Note each node location and apply its label onto the Site Log

Bin Location

1. Bin Structure:
ex. East Bin

CH #	1	2	3	4	5	6	7	8
Cable #	A1	A2	A3	A4	A5	A6	A7	A8
T/M	M	M	T	M	T	T	T	M

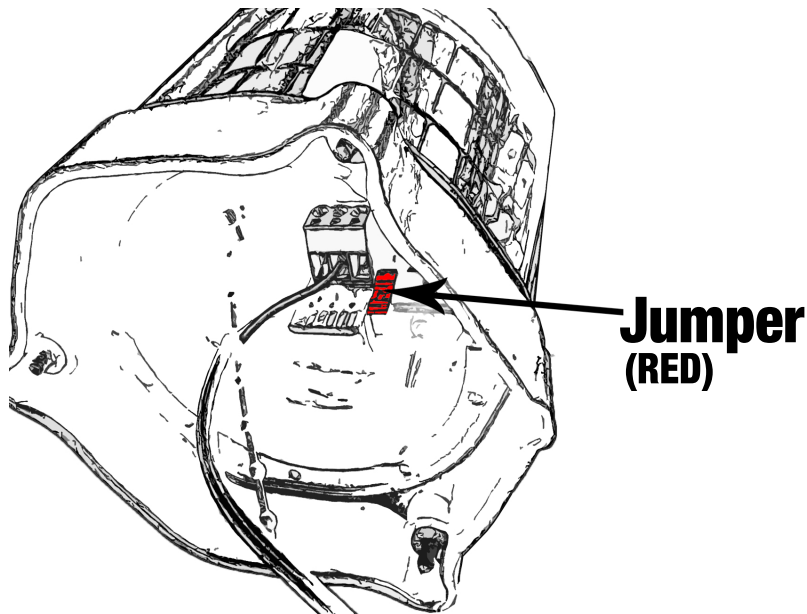**Node Cable #'s and Type (Temperature/Moisture)**

Step 9. Removing the Cable Node jumper
(If you are only installing a single cable node (CN1), this can be done on the ground prior to installation. Otherwise, this should be done after the node is installed on the bin.)

   a. Loosen all 3 screws on the node base and lift the cover
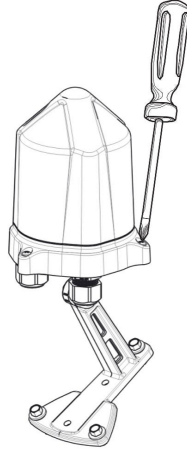
   c. Remove the red jumper from underneath the node cover

Jumper
(RED)

   d. The node will start flashing when the jumper is removed
   e. Align the cap with the alignment notch and tighten the screws
      (be sure to not over tighten or equipment may be damaged)

Step 10. Mount Cable Nodes

a. **Mount the Cable Node foot first without the cable node attached, or alternatively, you can have the node loosely connected to the base (see step b.) so that it can swivel up and down while mounting.**

Peel backing and stick into place before bolting

(x3)

25ft
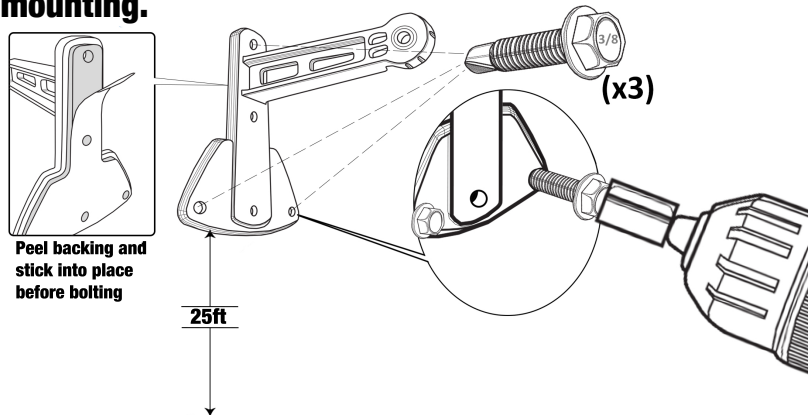
b. **Attaching Cable Node to Mounting Foot**
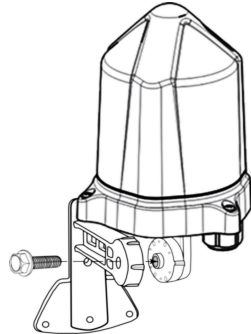
c. **Align nodes vertically on top of bins with clear sight to the Gateway, and no further than 800m (1/2 mile) from the Gateway Node**

d. **Connect Cable Node(s) to the bin cable(s)** *(as shown below)*

(x3)

Cable Node Cable(s) to Bin Cable(s)
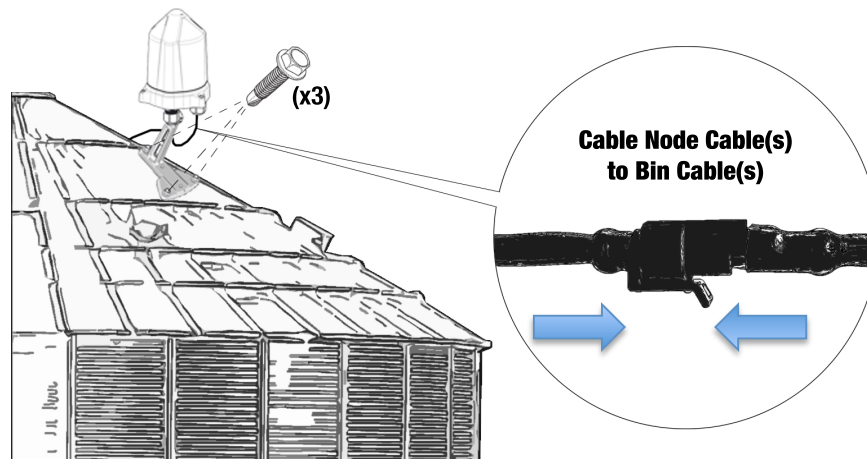
WARRANTY

1. Equipment Warranty

The OPI Blue grain monitoring system is warranted by OPIsystems Inc. against defects in workmanship for a period of two years from the date of purchase, provided recommended installation procedures have been followed.

This two-year warranty period covers all hardware components used in part or as a whole OPI Blue system. This includes: Gateway, all Components inside the Power Supply Enclosure, (if used) all Components inside the Remote Connection Enclosure, Ubiquity Wi-Fi radio, all connection cables between the Power Supply Enclosure (Remote Connection Enclosure) and the Gateway and all Cable Nodes whether a single channel or multi-channel node.

Note: The two year warranty on all OPI Blue components does not cover OPI temperature or moisture cables used in conjunction with the OPI Blue system. These cables are covered by their own separate one year warranty period.

Important: Should you have any questions or experience any problems with your OPI Blue system please contact the OPIsystems Inc. Customer Care support team for assistance and we will be more than happy to help you out. 1-800-661-1055 (press option 2)

Wiring the Power Panel
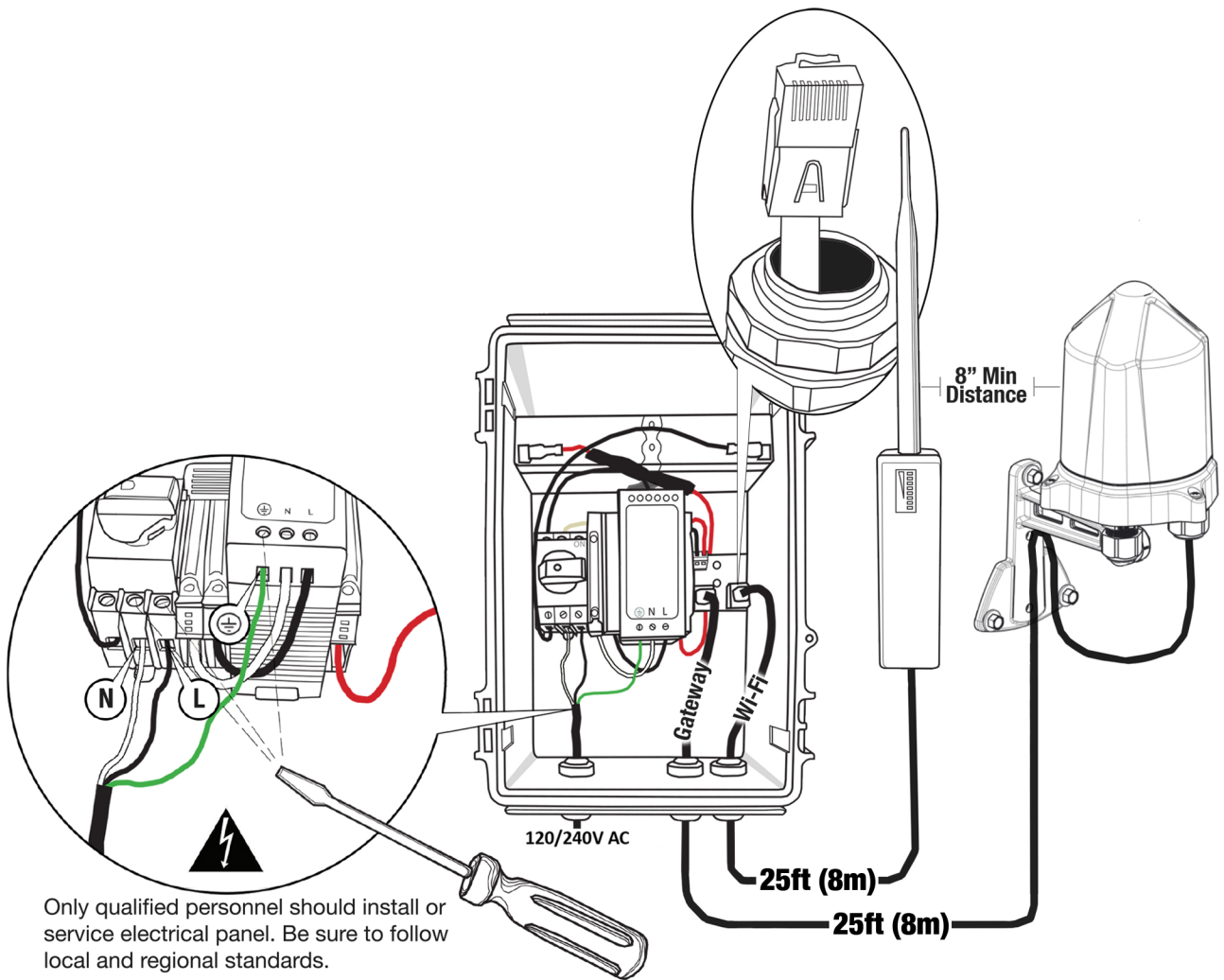
N **L**

8" Min Distance

Gateway Wi-Fi

120/240V AC

25ft (8m)

25ft (8m)

Only qualified personnel should install or service electrical panel. Be sure to follow local and regional standards.

120/240V AC power cable is not supplied and is required for installation

Wiring the Power Panel
with Remote Access
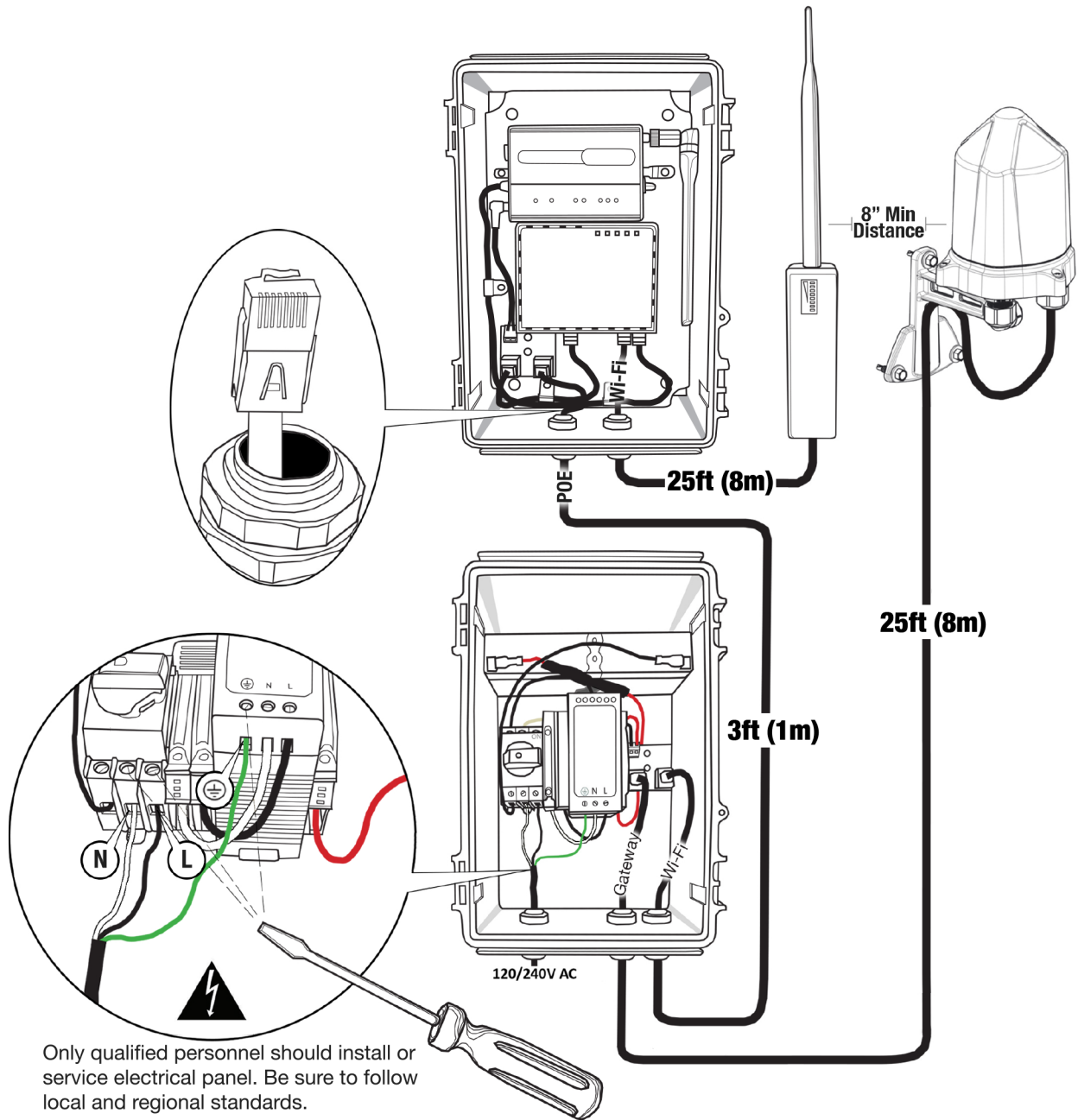
8" Min Distance

25ft (8m)

25ft (8m)

POE

Wi-Fi

3ft (1m)

Gateway

Wi-Fi

120/240V AC

N **L**

Only qualified personnel should install or service electrical panel. Be sure to follow local and regional standards.

120/240V AC power cable is not supplied and is required for installation

OPI BLUE

Farm:_____

Customer:_____

Site:_____

Date & Time of Installation:_____

Site Log

Gateway Node Installed Location:
ex. East Side of Barn

User Name: admin

Password: pass

Place Gateway Node Label Here

1. Bin Structure:
ex. Bin #1

CH #	1	2	3	4	5	6	7	8
Cable #	A1	A2	A3	A4	A5	A6	A7	A8
T/M	M	M	T	M	T	T		M

Place CN Label Here

2. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

3. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

4. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

5. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

6. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

7. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

8. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

9. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

10. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

11. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

12. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

13. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

14. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

15. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

16. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

17. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

18. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

19. Bin Structure:

CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

Place CN Label Here

20. Bin Structure:

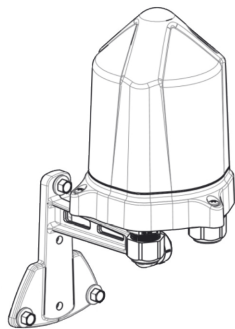| CH #	1	2	3	4	5	6	7	8
Cable #								
T/M								

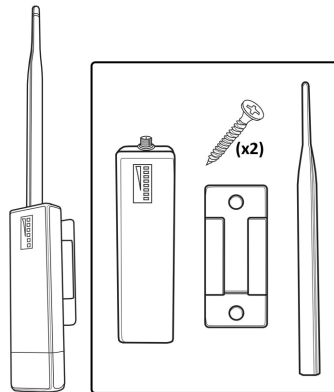Place CN Label Here

21. Notes/Comments:

Package Contents

Order # _____

Completed by: _____

Gateway Node

☐ Quantity _____

Wi-Fi AP

☐ Quantity _____
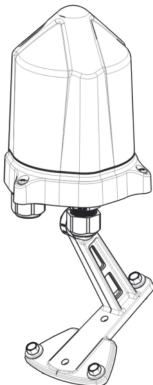
CN1 (Single Cable Node)

☐ Quantity _____

CN8
(1-8 Multi Cable Node)
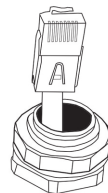
☐ Quantity _____

CAT5 Ethernet Patch Cable

☐ 25 foot   Quantity _____
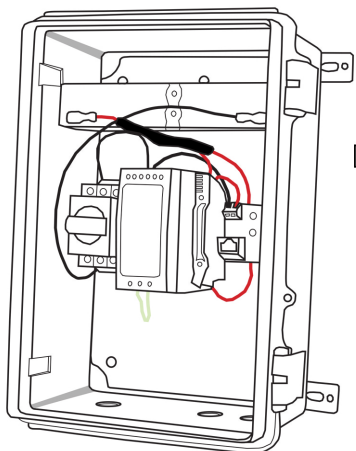 cable gland ☐ 1 end ☐ both

☐ 50 foot   Quantity _____
  cable gland ☐ 1 end ☐ both

☐ 75 foot   Quantity _____
  cable gland ☐ 1 end ☐ both

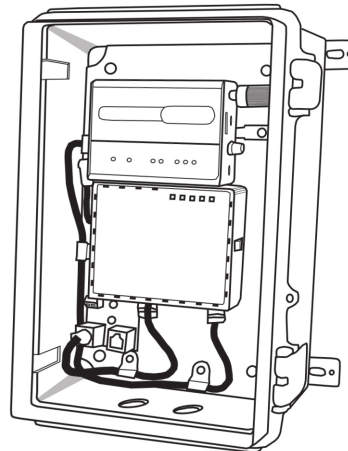☐ 3 foot   Quantity _____
  cable gland ☐ 1 end ☐ both

Power Panel

☐ Quantity _____

Remote Access Panel

☐ Quantity _____

Connectivity Instructions

Connection Options

Gateway MAC: _____   **Gateway PIN:** _____

Local Connection

If you are connecting to the gateway locally, on your iPad go to: *Settings*, *Wi-Fi* and under *Choose a Network* select **OPIBLUE**. The password is: **OPIBLUE**_____.

To connect to your system, open the OPI Blue application and enter the address in the field exactly as:

For Wi-Fi Access Systems: **https://172.31.0.1:8888/1/**

For Remote Access Systems: **https://192.168.2.2:8888/1/**

The system will ask for your Gateway's 4-digit PIN, which is provided on the bottom of the gateway and the top of this page.

To Connect from a Remote Location*

If you are not at your home location, connect your iPad to the internet through any available Wi-Fi connection with internet access.

Open the OPI Blue application and enter the address in the field as:

https://connect.opiblue.com:443/(GATEWAY MAC ADDRESS)/1

(The Gateway MAC address is located on the bottom of your gateway)

If the system has a Remote Connection Enclosure
To manage your remote connection options (connection verification and alert notifications), you will need to have an account set up on OPIBlue.com. For assistance, please contact Customer Care at: 1-800-661-1055 (option 2).