

915U-2 wireless mesh networking I/O and gateway installation guide



Statutory requirements

FCC: This device complies with Part 15.247 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

FCC: Unlicensed operation limits the radio power. High gain aerials may only be used to compensate for cable losses.

⚠ WARNING - EXPLOSION HAZARD

Do not disconnect the device while the circuit is live unless the area is known to be non-hazardous.

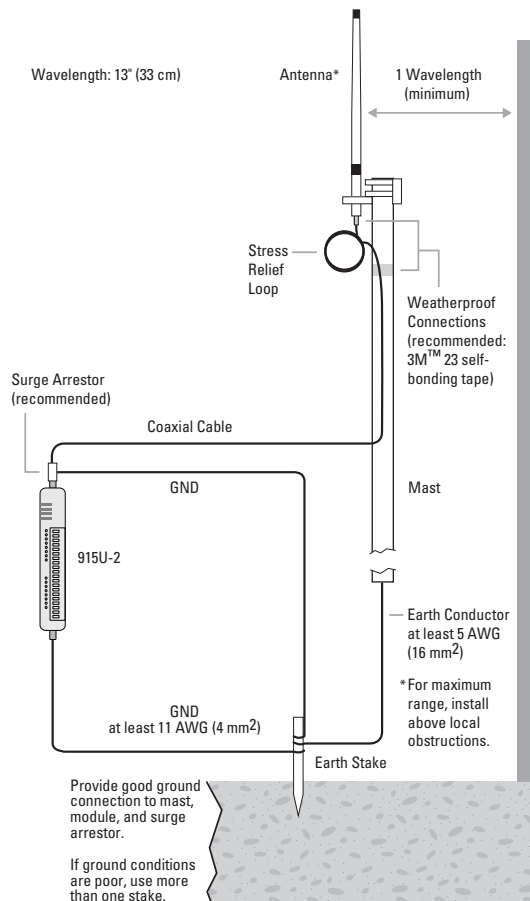
NOTE

The 915U-2 module ships from the factory as a meshing radio. You can reconfigure the 915U-2 for WIBNet™ compatibility by changing the operating mode using the configuration utility.

Antenna installation

Use Figure 1 as a guide for installing an antenna and attaching it to the module.

Figure 1. Antenna installation



Connecting to the module for configuration

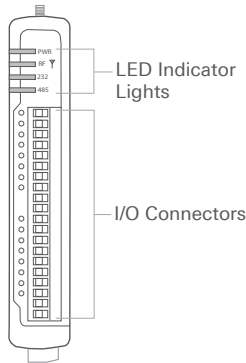
The default settings for the 915U-2 are as follows:

- **IP Address:** 192.168.0.1XX, where “XX” is the last two digits of the serial number shown on the printed label on the side of the module
 - **Subnet Mask:** 255.255.255.0
 - **Default Gateway:** 192.168.0.1
 - **Username:** user
 - **Password:** user
1. Connect a straight-through Ethernet cable between the module’s Ethernet port and a PC.
 2. Open Internet Explorer on the PC.
 3. Type “http://” followed by the IP address of the module and press Enter.

NOTE

All connections must be SELV <50 Vac and <120 Vdc.

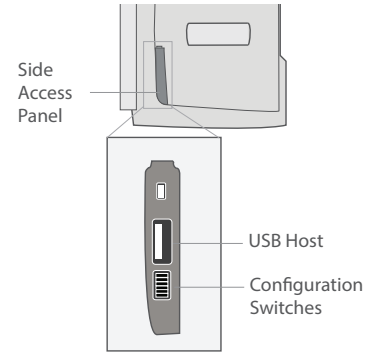
The following illustrations show the ports on the 915U 2.



Configuration switches

Use the DIP switches in the side access panel to select analog input voltage and current, external boot, and default configuration settings.

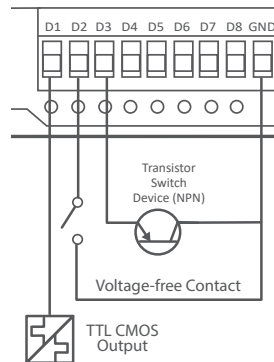
DIP	DESCRIPTION
1	AI3 current/voltage
2	AI3 current/voltage
3	AI4 current/voltage
4	AI4 current/voltage
5	Unused
6	Enables default configuration



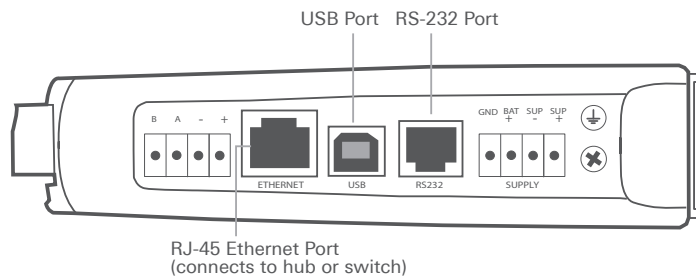
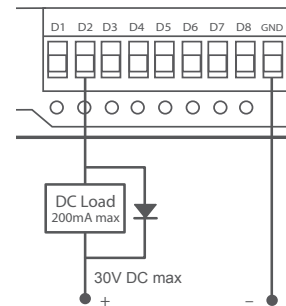
Input and output connections

The digital input/output channels can be wired as inputs or outputs.

Digital input



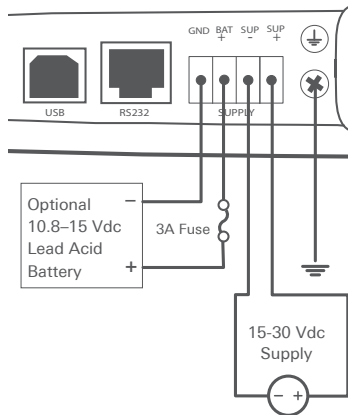
Digital output



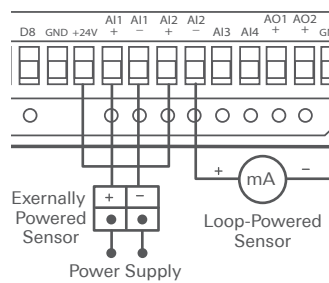
Power supply wiring

The ground (GND) and "SUP -" terminals are connected internally to the ground terminal.

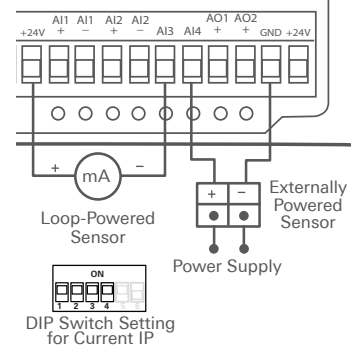
Connect the screw terminal on the end plate to ground for surge protection.



Differential current inputs (AI1, AI2)



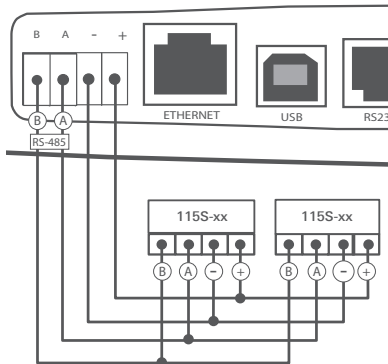
Single-ended current input (AI3, AI4)



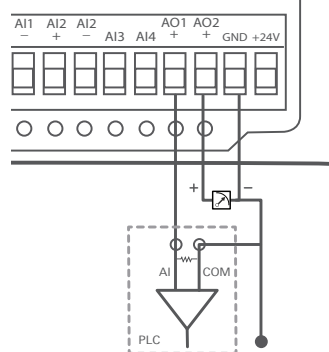
Expansion I/O power and RS-485 serial connection

An on-board RS-485 terminating resistor provides line attenuation for long runs.

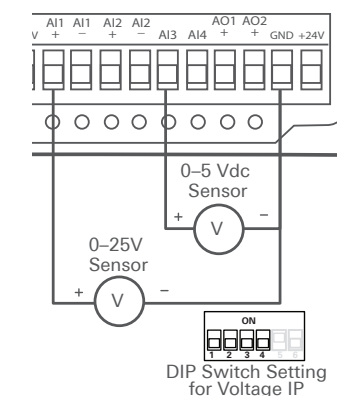
Place terminating resistors at each end of the RS-485 cable.



Analog output



Single-ended voltage input



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