

STATUTORY REQUIRMENTS

The 215U-2 is suitable for use in hazardous locations that are rated Class I Division 2, Groups A, B, C, D.

The 215U-2 must be installed in an enclosure that maintains an ingress protection rating of IP54 and meets the enclosure requirements of EN50014 or EN60079-0.

The RF coaxial cable must be installed in a metallic conduit, per the US National Electrical Code (NEC) or NFPA.

SUP+ and SUP- terminals must only be powered from an NEC Class 2 circuit.

WARNING - EXPLOSION HAZARD

Do not disconnect equipment while the circuit is live unless the area is known to be free of ignitable concentrations. Substitution of any component may impair suitability for Class I Division 2.

NOTE

The 215U-2 module ships from the factory configured for global frequency and power. Set the radio region to access country specific radio options.

Models

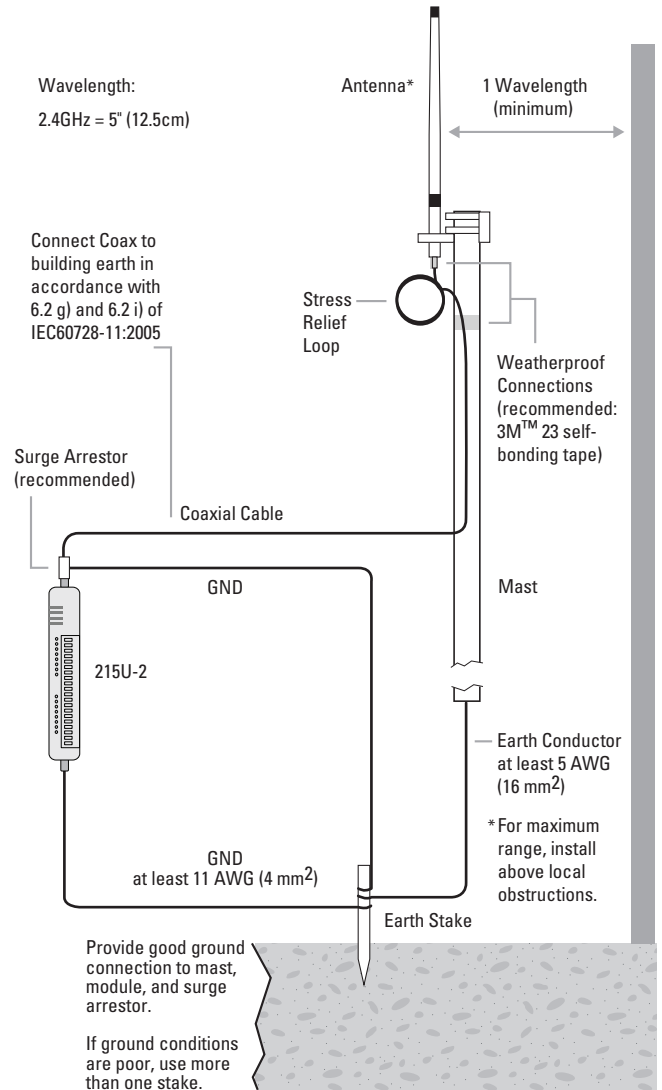
215U-2-BGN – 2.4Ghz WiFi band

Antenna installation

When selecting an antenna, consider radio proximity.

Use Figure 1 as a guide for installing an antenna and attaching it to the 215U-2.

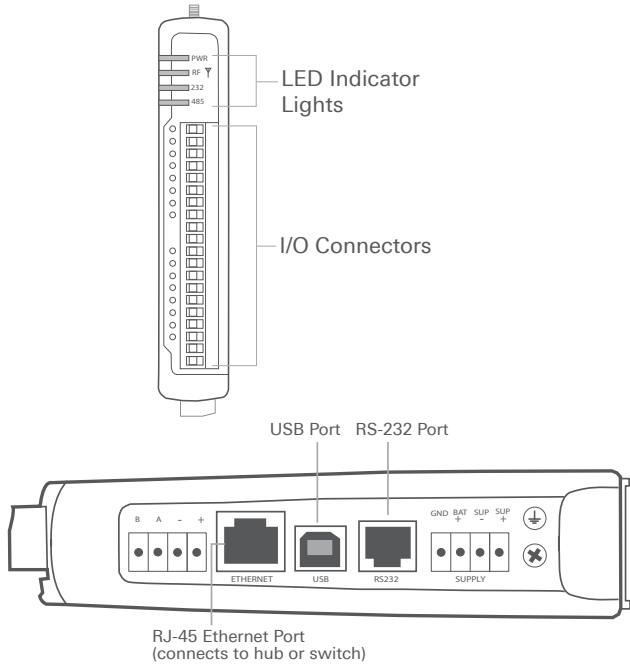
Figure 1. Antenna installation



Connecting to the module for configuration

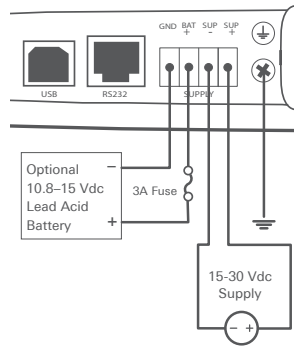
- Download and install configuration utility software, available from the Elpro Technologies website. www.elprotech.com
- Connect to PC using supplied USB cable.
- Connect to the device by selecting USB connection and using the IP address 192.168.111.1 or 1.1.1.1 for older firmware (pre V2.28)
- The PC will automatically be assigned an IP address from the module via DHCP. A new network adaptor will be created using IP address 192.168.1.2 (or 1.1.1.2)
- **Username:** user
- **Password:** user

The following illustrations show the port connections on the 215U-2.



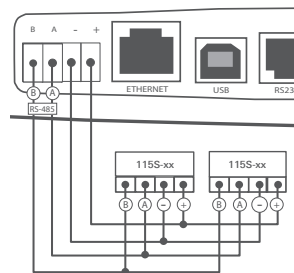
Power Supply Wiring

The ground (GND) and "SUP -" terminals are connected internally to the ground (Earth) terminal. Connect the screw terminal on the end plate to ground (Earth) for surge protection.



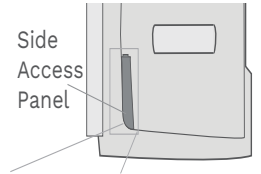
Expansion I/O Power and RS485 serial connection

An on-board RS-485 terminating resistor provides line termination for long runs. Only enable terminating resistor on the last device connected on the RS-485 cable.

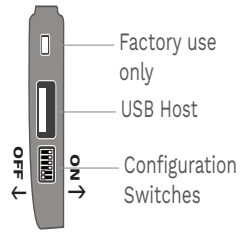


Configuration Switches

Use the DIP switches in the side access panel to select analog input voltage or current, and to enable default configuration.



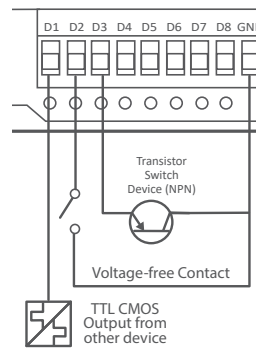
DIP	Description	OFF	ON
1	AI3 Current / Voltage	Voltage	Current
2	AI3 Current / Voltage	Voltage	Current
3	AI4 Current / Voltage	Voltage	Current
4	AI4 Current / Voltage	Voltage	Current
5	Unused	Off	On
6	Default configuration	Normal	Enabled



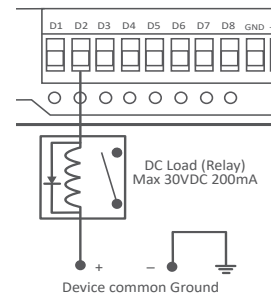
Input and Output connections

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

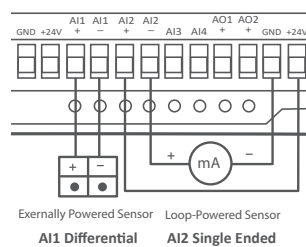
Digital Input



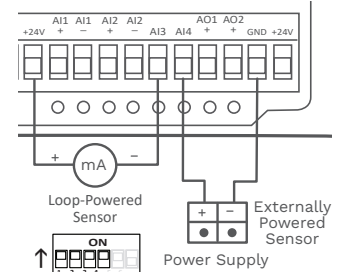
Digital Output



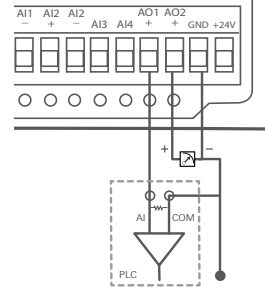
AI1, AI2 - Differential 4-20mA inputs



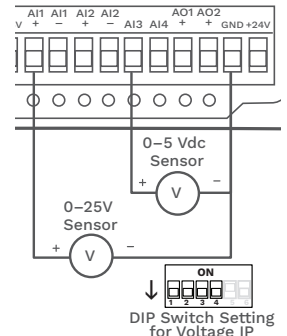
AI3, AI4 - Single Ended 4-20mA inputs



AO1 & AO2 - Analog Output (0-20mA)



AI3 & AI4 - Single Ended voltage input



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HOW TO ORDER

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