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ELPRO 415U-2-CX Long Range Wireless Ethernet Gateway

EXPLOSION HAZARD

WARNING – EXPLOSION HAZARD

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

NOTE

- All connections must be SELV <50 Vac and <60Vdc.

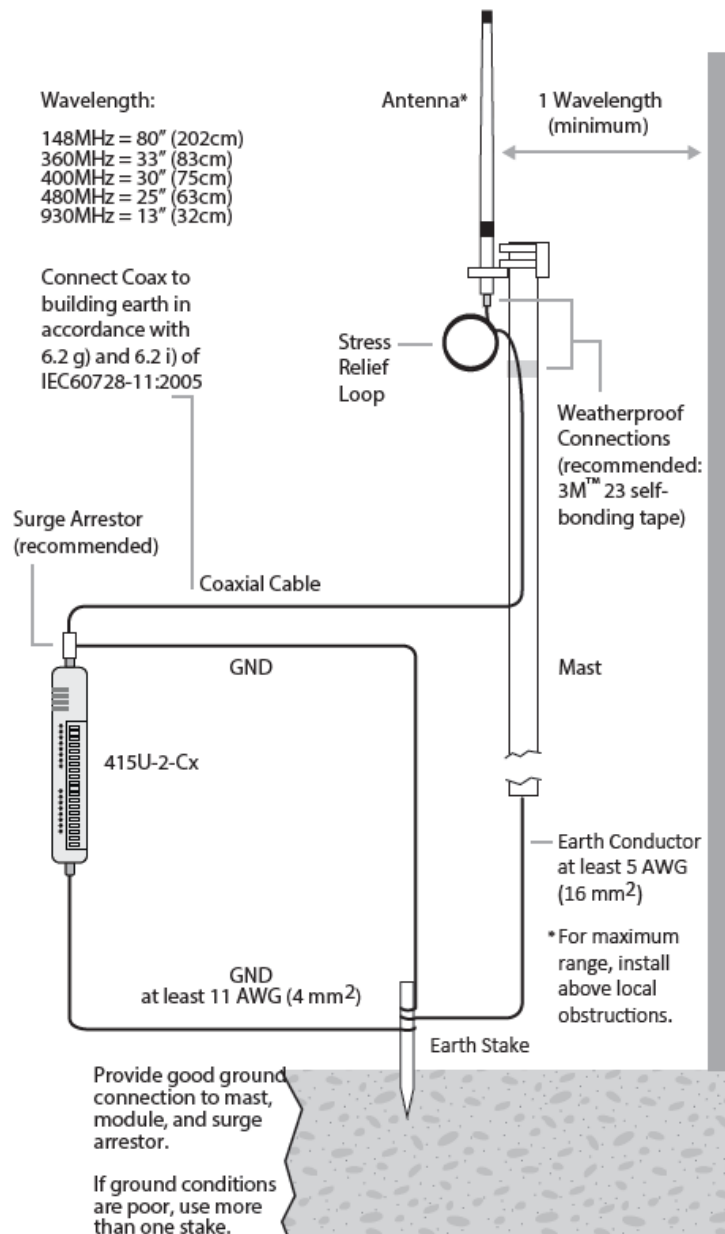
Models

- 415U-2-C1 – 148 to 174MHz
- 415U-2-C3 – 360 to 400MHz
- 415U-2-C4 – 400 to 480MHz
- 415U-2-C5 – 470 to 520MHz
- 415U-2-C9 – 928 to 960MHz

Antenna installation

- When selecting an antenna, consider radio proximity.
- Use Figure 1 as a guide for installing an antenna and attaching it to the 415U-2-Cx.

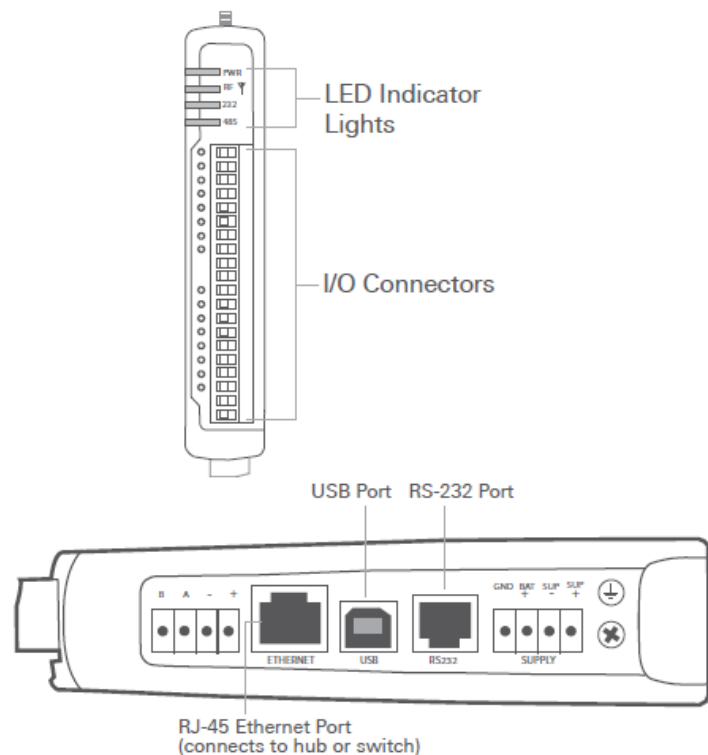
Figure 1. Antenna installation



Connecting to the module for configuration

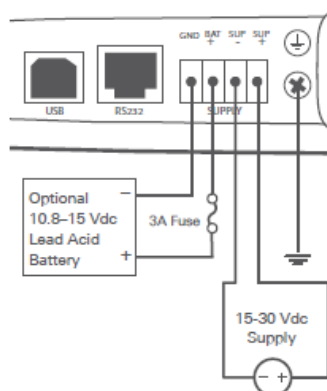
- Download and install the configuration utility software, available from the Elpro Technologies website. www.elprotech.com
- Connect to the PC using the supplied USB cable.
- Connect to the device by selecting the USB connection and using the IP address 192.168.111.1 or 1.1.1.1 for older firmware (pre 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

following illustrations show the port connections on the 415U-2-Cx.



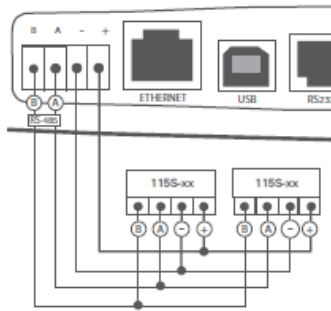
Power Supply Wiring

- 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

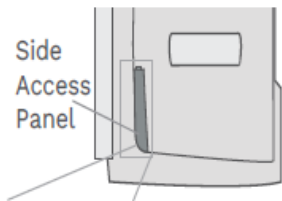
- An on-board RS-485 terminating resistor provides line termination for long runs.
- Only enable the terminating resistor on the last device connected on the RS-485 cable.



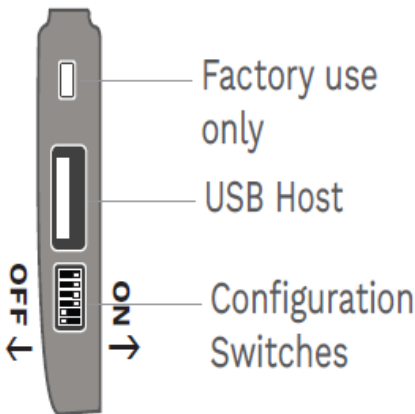
INSTALL GUIDE

Configuration Switches

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



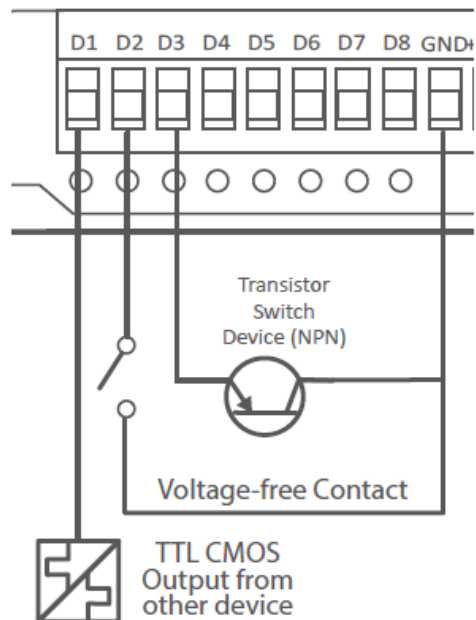
DIP	Description	OFF	ON
1	AI3 Current / Voltage	Voltage	Current
2	AI3 Current / Voltage	Voltage	Current
3	AI4 Current / Voltage	Voltage	Current
4	AI4 Current / Voltage	Voltage	Current
5	Unused	Off	On
6	Default configuration	Normal	Enabled



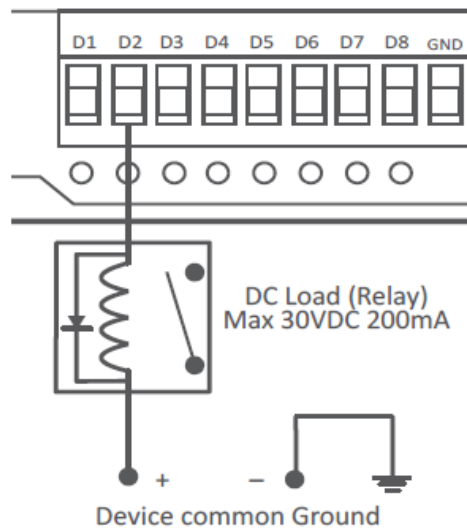
Input and Output connections

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

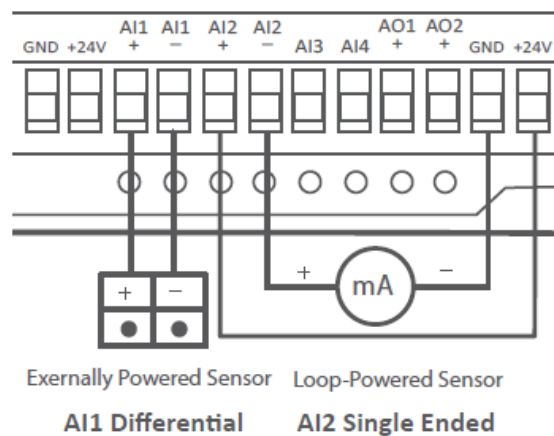
Digital Input



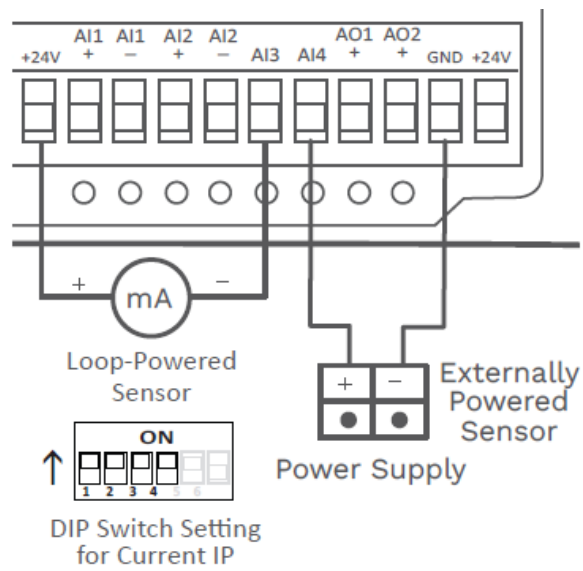
Digital Output



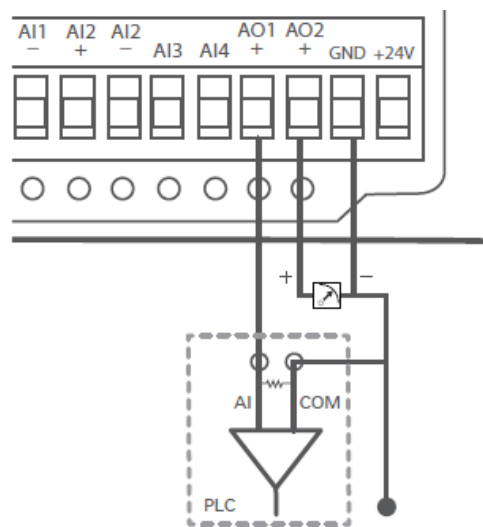
AI1, AI2 – Differential 4-20mA inputs



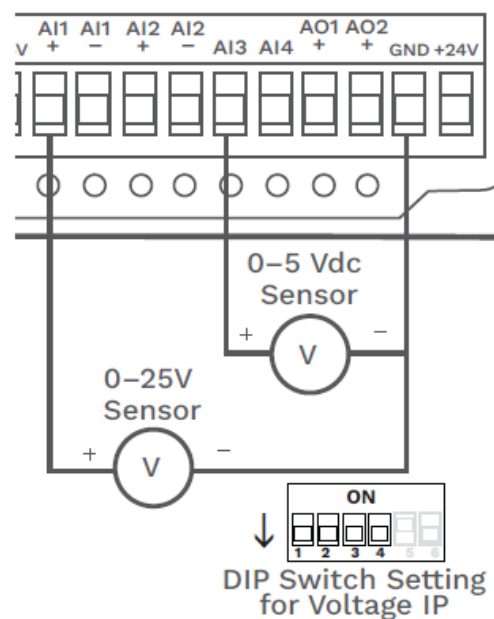
AI3, AI4 – Single Ended 4-20mA inputs



AO1 & AO2 – Analog Output (0-20mA)



AI3 & AI4 – Single-ended voltage input



HOW TO ORDER

- Simply send us an email at sales@elprotech.com, contact your local distributor, or phone +61 7 3352 8600

CONTACT

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- ELPRO Technologies
- 29 Lathe Street
- Virginia QLD 4014
- T +61 7 3352 8600
- E sales@elprotech.com
- W elprotech.com

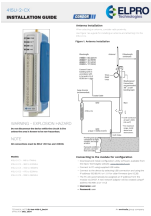
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- E sales@elprotech.com
- W elprotech.com

FAQ

- **Q: How do I ensure proper grounding for the antenna installation?**
 - **A:** To ensure proper grounding, follow the guidelines provided in sections 6.2 g) and 6.2 i) of IEC60728-11:2005 when connecting Coax to the building earth.

Documents / Resources



[ELPRO 415U-2-CX Long Range Wireless Ethernet Gateway \[pdf\]](#) Installation Guide
415U-2-CX Long Range Wireless Ethernet Gateway, 415U-2-CX, Long Range Wireless Ethernet Gateway, Wireless Ethernet Gateway, Ethernet Gateway

References

- [User Manual](#)

ELPRO

415U-2-Cx, 415U-2-CX Long Range Wireless Ethernet Gateway, ELPRO, Ethernet Gateway, Long Range Wireless Ethernet Gateway, Wireless Ethernet Gateway

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