



elo 925U-2-XXX Wireless Mesh Networking Installation Guide

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**925U-2-XXX
INSTALLATION GUIDE**



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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 925U-2 module ships from the factory as a bridged meshing radio.

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

If communication with the older legacy 915U-2's is required, radio operating mode can be changed with a firmware downgrade, which is available on the USB Stick in the box. Please follow the "Downgrade procedure" document which is also on the USB.

Models

9250-2-869-869.5 to 969.9MHz – 869 MHz ISM band (Europe)

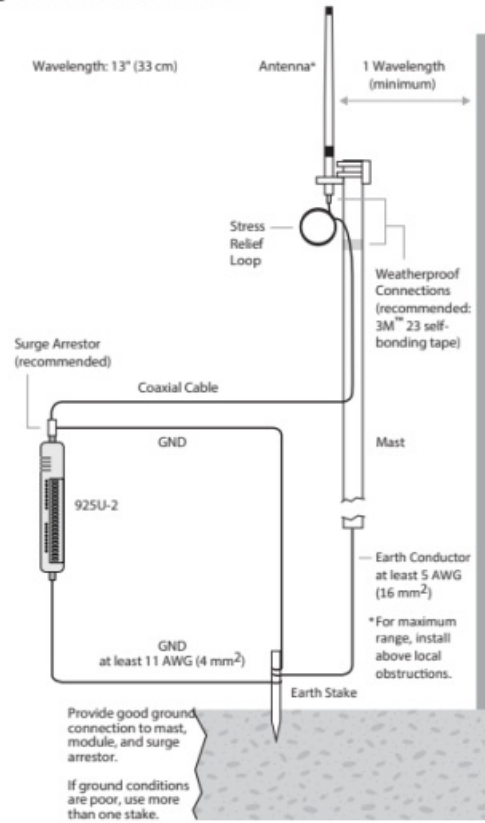
925U-2-900-902 to 928MHz-900Mhz FHSS band

Antenna installation

When selecting an antenna, consider radio proximity.

Use Figure 1 as a guide for installing an antenna and attaching it to the 925U-2-XXX.

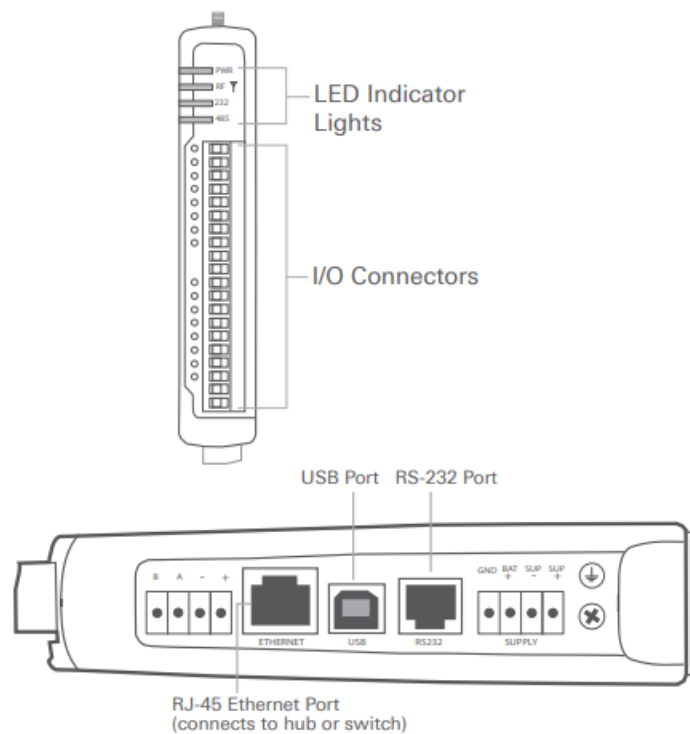
Figure 1. Antenna installation



Connecting to the module for configuration

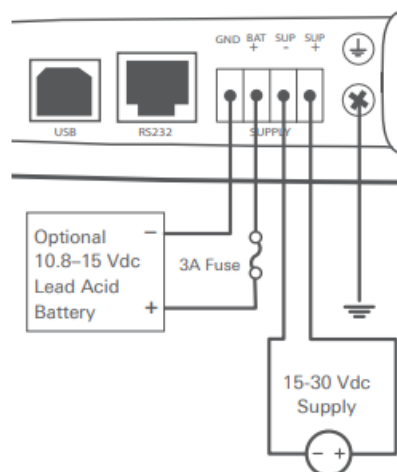
- Download and install configuration utility software, available from the Elpro Technologies website.
www.elprotech.com
- Connect to PC using supplied USB cable.
- Connect to the device by selecting USB connection and using the 1P address 192.168.1111 or 1111 for older firmware (pre V2.28)
- The PC will 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 111.2)
- Username: user
- Password: user

The following illustrations show the port connections on the 925U-2-XXX.



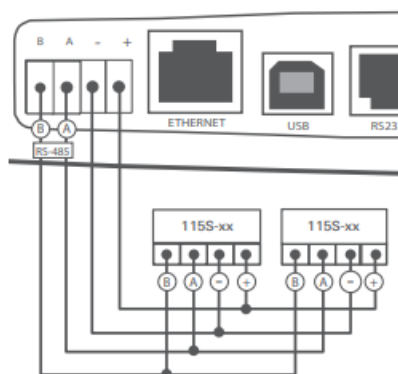
Power Supply Wiring

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.



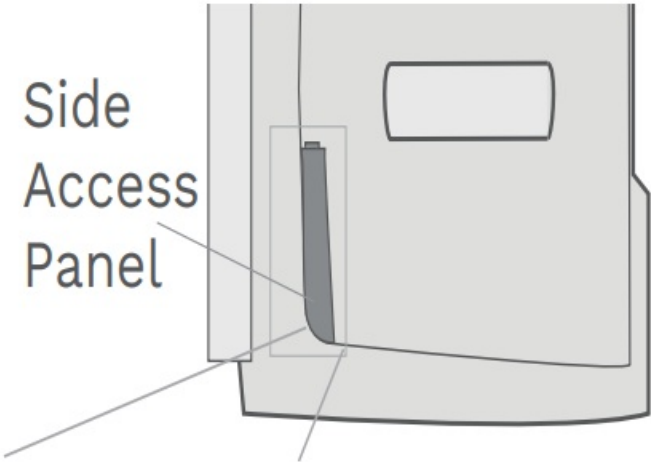
Expansion I/O Power and RS485 serial connection

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.

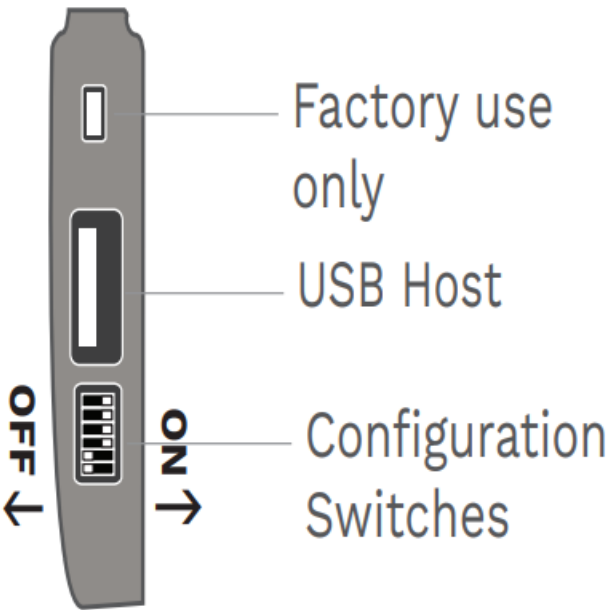


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Configuration Switches

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



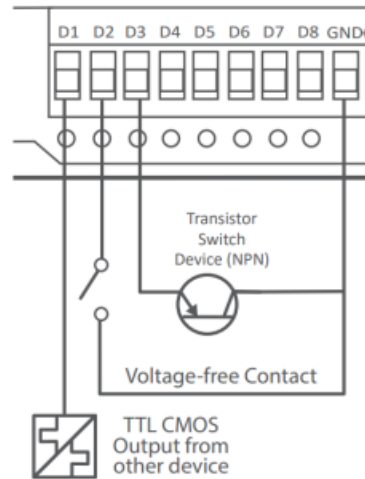
DIP	Description	OFF	ON
1	AI3 Current / Voltage	Voltage	Current
2	AI3 Current / Voltage	Voltage	Current
3	AI4 Current / Voltage	Voltage	Current
4	AI4 Current / Voltage	Voltage	Current
5	Unused	Off	On
6	Default configuration	Normal	Enabled



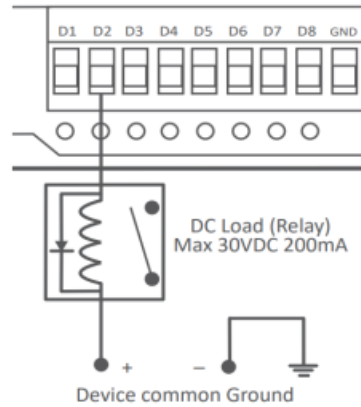
Input and Output connections

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

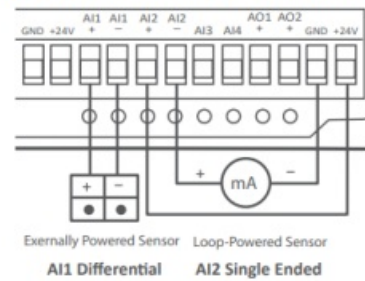
Digital Input



Digital Output



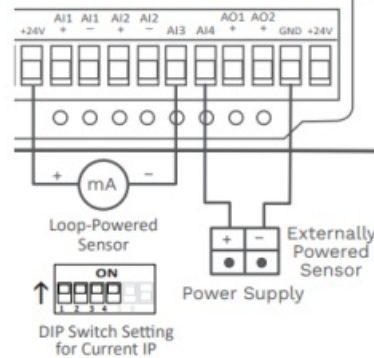
AI1, AI2 - Differential 4-20mA inputs



Externally Powered Sensor Loop-Powered Sensor

AI1 Differential AI2 Single Ended

AI3, AI4 - Single Ended 4-20mA inputs

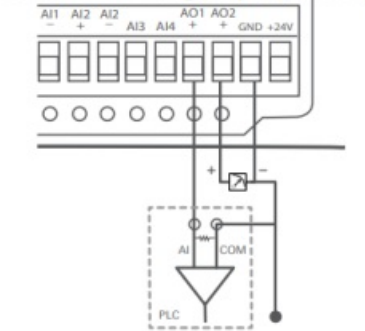


Loop-Powered Sensor Externally Powered Sensor

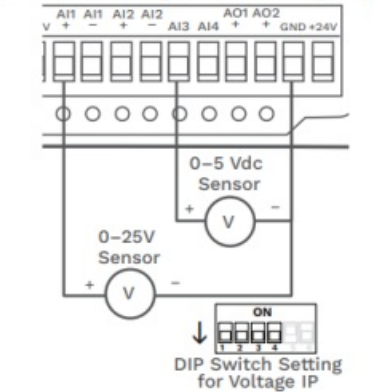
Power Supply

DIP Switch Setting for Current IP

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



AI3 & AI4 - Single Ended voltage input



0-5 Vdc Sensor

0-25V Sensor

DIP Switch Setting for Voltage IP

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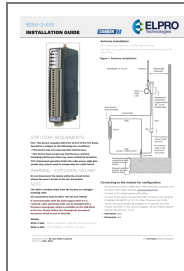
E sales@elprotech.com

W elprotech.com

HOW TO ORDER

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

Documents / Resources



[elo 925U-2-XXX Wireless Mesh Networking](#) [pdf] Installation Guide
925U-2-XXX Wireless Mesh Networking, 925U-2-XXX, Wireless Mesh Networking, Mesh Networking

References

- [🌀 One moment, please...](#)
- [User Manual](#)

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