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W-Modbus

MODBUS RTU THROUGH RELIABLE WIRELESS MESH

W-Modbus replaces the Modbus RTU cable with a reliable wireless mesh - it eliminates time-consuming installation planning, cabling, daisy-chaining and trouble-shooting. Avoiding cabling has never been easier.

With W-Modbus it is easy to retrofit connectivity to already installed devices, converting a wired installation to a wireless network. For greenfield installations, the product provides increased flexibility and significant cost savings - both during installation and steady-state operation.

W-MODBUS WALL MOUNT

Replace your Modbus RTU cable with a wireless connection between a Modbus Client and Server.

W-MODBUS WALL MOUNT PRO

With the PRO version, up to four Modbus Servers can be connected to one W-Modbus PRO Node.

W-MODBUS NODE

Can be hidden behind a wall.

W-MODBUS DIN RAIL

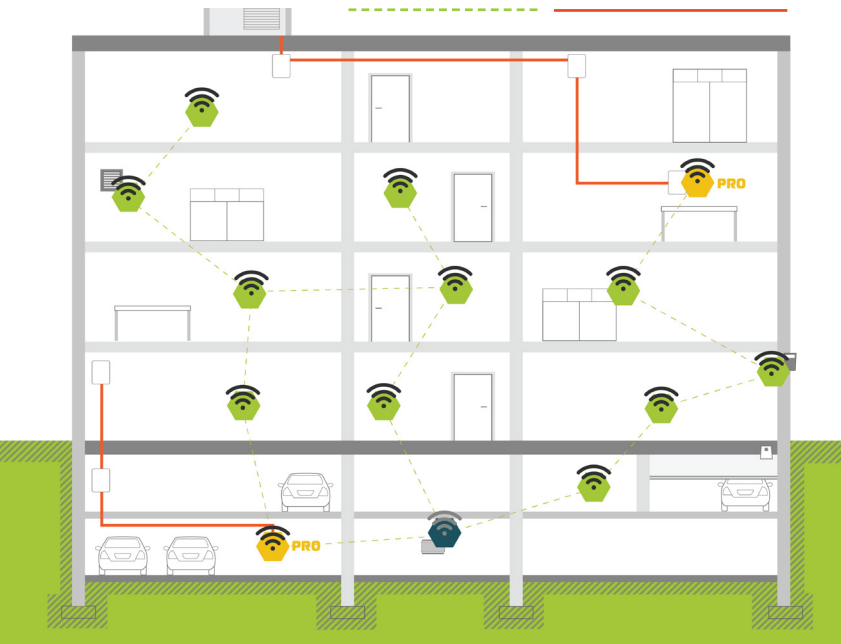A perfect fit next to your controller unit as a Modbus client in a DIN rail cabinet.

Wireless Mesh - - - - -   Modbus RTU cable ———

INSTANT INSTALLATION

3 simple steps to commission the W-Modbus network in minutes - just power up and connect your Modbus device and you are up-and-running. Avoids time-consuming and un-esthetical cabling.

UNIQUE RELIABILITY

By combining our patented MiraMesh and Cognitive Coexistence technology, each W-Modbus possess an unparalleled reliability and resilience towards interference.

MULTIPLE SERVERS - PRO

With W-Modbus PRO you will be able to daisy chain up to four Modbus Servers behind one W-Modbus PRO unit.
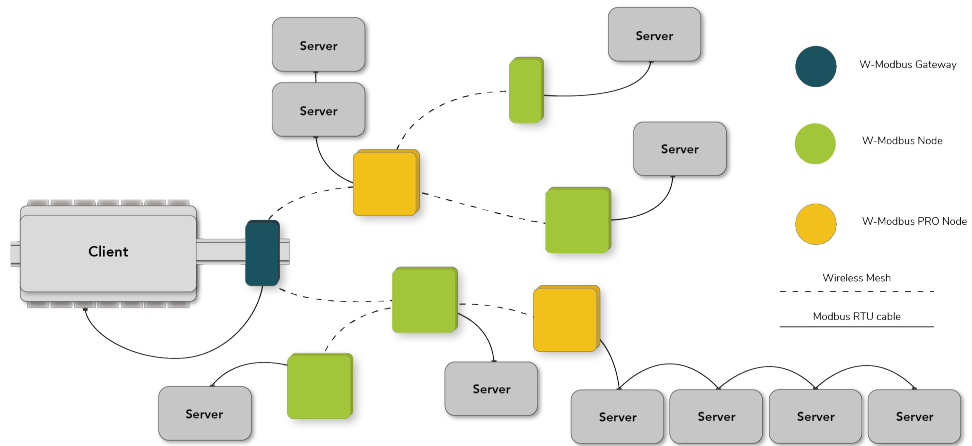
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FEATURES

- Out-of-the-box installation – just power up and connect to your Modbus device and you are up and running.
- Instant commissioning – 3 simple steps, commissioning the W-Modbus network in minutes
- Mesh network – cover an entire building, utilizing the mesh network as your infrastructure.
- Cognitive Coexistence – LumenRadio's patented technology provides industrial-grade reliability and immunity to interference.
- Self-optimizing network – the mesh network will always find the best way to send messages through the network between devices.
- Range – 500 meters (line-of-sight) per-hop in the mesh network
- Modular configuration - you no longer need to have the same baud rate in the whole network, supports individual settings for each device.
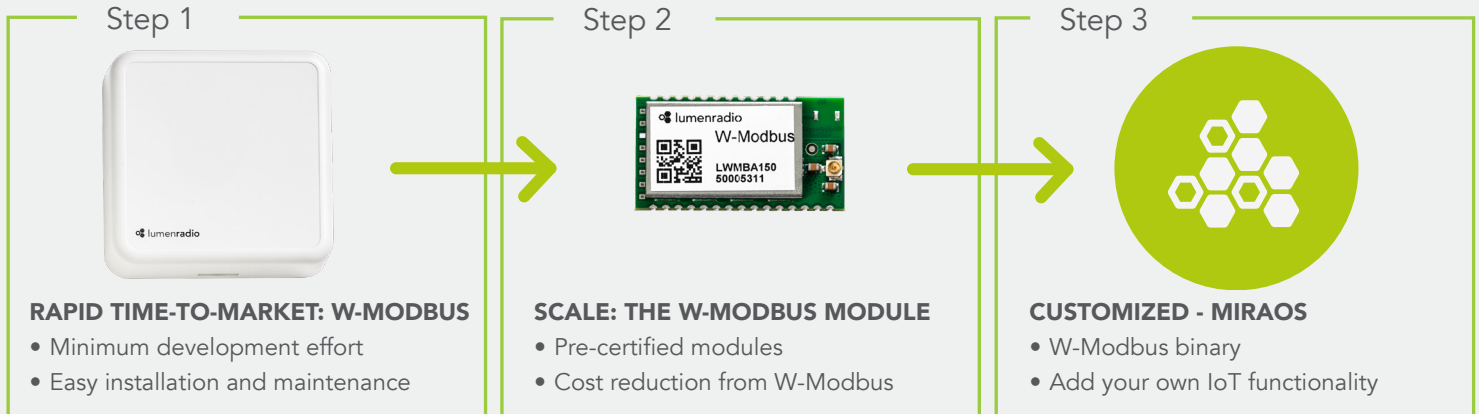
SYSTEM OVERVIEW

A W-Modbus network consists of a single W-Modbus Gateway connected to the Modbus Client using a Modbus RTU cable and up to 100 W-Modbus Nodes.

The W-Modbus PRO nodes can be connected to one to four Modbus Servers over a Modbus RTU cable compared to a normal W-Modbus node that can connect to one Server over Modbus RTU cable.

W-Modbus Gateway
W-Modbus Node
W-Modbus PRO Node
Wireless Mesh
Modbus RTU cable

GET IOT READY TODAY add your own uniquness tomorrow

Step 1

RAPID TIME-TO-MARKET: W-MODBUS
- Minimum development effort
- Easy installation and maintenance

Step 2

SCALE: THE W-MODBUS MODULE
- Pre-certified modules
- Cost reduction from W-Modbus

Step 3

CUSTOMIZED - MIRAOS
- W-Modbus binary
- Add your own IoT functionality

CUSTOMERS AND PARTNERS

ebmpapst | pd PRODUAL measure - be sure. | SAUTER Für Lebensräume mit Zukunft. | Swegon | systemair

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With patented technologies and an unique operating system, LumenRadio provides ultra-reliable mesh connectivity for the most business critical applications.

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