

enLink Modbus

LoRaWAN Modbus Bridge

Synetica's enLink Modbus LoRaWAN Modbus Bridge converts wired Modbus devices such as energy meters and sensors to LoRa long range wireless. Any instrument, device or sensor with a wired Modbus RS485 interface can be read and converted to a LoRaWAN wireless device.

Modbus automation communication protocols are one of the most widely adopted systems for connecting industrial electronic devices, allowing the integration of equipment from different manufacturers.

The enLink Modbus enables users to connect up to 32 Modbus readings, e.g. 5 Modbus slave devices each with 6 parameters per slave. Data is transmitted from the slaves periodically, based on a user configurable interval. As with all enLink devices, data is securely transferred using AES 128 encryption.



Applications



Robot



Remote Asset



Level Sensor



Meter



PLC Controller



Instrument

Key Features



Up to 32 Modbus registers per enLink Modbus unit



Modbus RTU RS485



Simple, quick installation



Easy configuration & monitoring via USB & LoRa



LoRa™ wireless, up to 16km range



Data transferred using AES 128 encryption



Signal strength indicator

enLink Modbus – LoRaWAN Modbus Bridge

Established in 2008, the engineering team at Synetica have many years experience in monitoring and analysing critical information for the facilities management, commercial and industrial sectors.

The enLink Modbus provides a simple way of transmitting Modbus data via LoRaWAN and each unit is quickly and easily configured using simple menus via USB connection. Parameters can be changed using the device menus and Modbus data can be read, converted and displayed to verify that the correct readings are being obtained from the Modbus devices.

Once an individual Modbus data point has been correctly configured, a clone function allows the parameters to be copied to the next item to allow rapid configuration and verification of all Modbus data points.

Our UK manufactured enLink Modbus devices are mains powered and CE and RoHS compliant. enLink Modbus has been tested by UL to internationally recognised Safety Standards and is UL listed (File Number E504478).

If you have a specific requirement for an air, environmental, energy or asset monitoring solution, contact us to learn more about how our precision monitoring technologies could help.

Features

Up to 32 Modbus registers per enLink Modbus unit

Modbus RTU RS485

LoRa long range wireless

Frequency Range: 863-870MHz* & 902-928MHz*

Up to +14dBm Tx Power

Built in USB port for configuration

Modbus parameter configuration and verification via built-in menus

Externally powered 12-24V DC (120mA max.)

UKCA, CE, FCC compliant

Dimensions: 86 x 70 x 57mm

**Model dependent*

About us

Synetica was established in 2008 with the simple idea to revolutionise air quality monitoring, energy usage and remote asset monitoring. Our global customer base relies on our expertise to help them reduce emissions and clean up the air they breathe by allowing them to monitor their energy usage and key environmental parameters via the touch of a button.

www.synetica.net

T: +44 (0)1785 818919 **E: enlink@synetica.net**

Synetica Limited, Hilton House, 40 High Street, Stone, Staffordshire. ST15 8AU UK

