FORITEC

LOR DIN. DIN-rail mount ModBus Module



The LOR DIN 2-Module DIN-Rail ModBus module is installed on a 2-module DIN rail to collect measurement data via the RS-485 meter interface in accordance with the ModBus or DLMS/COSEM protocol and transmit the data wirelessly either via LoRaWAN® or wM-BUS (EU EN13757-4).

The module is compatible with all kWh ModBus, DLMS/COSEM electricity meters with an RS-485 interface and is suitable for implementing metering systems in apartments, private houses, businesses, and other utility sectors.

This enables flexible connectivity options for IoT applications.

Supported meters

- Any kind of kWh (electricity) single/three-phase meters with ModBus, DLMS/COSEM protocol with RS-485 extrenal connection



The LOR DIN module works by integrating two communication protocols into a single device, allowing it to support both LoRaWAN® and wM-BUS connectivity.

1. LoRaWAN® Communication: The module can communicate with LoRaWAN® networks. It transmits and receives data packets over long distances, making it ideal for IoT applications that require low power, long-range connectivity.

2. wM-BUS Communication: The module also supports the wM-BUS protocol, which is commonly used for wireless metering applications. It enables the module to communicate using the wM-BUS (EN13757-4 standard) for data transmission.

Dual-Stack Capability: The module is designed to handle both LoRaWAN® or wM-BUS communication independently. This dual-stack capability allows for flexible deployment in diverse IoT scenarios where devices may need to communicate using either connection technics. It is possible to switch between RF connection principals by the commands from the kWh meter.

Users can configure the module's settings, such as network parameters, communication frequency, data rate, and encryption keys, to ensure seamless integration with the target network infrastructure.

Specifications

Installation method
2 modules DIN rail mount

Meter connection
wired RS-485, ModBus, DLMS/COSEM

Frequency plans supported by default
EU 868: 863-870 MHz

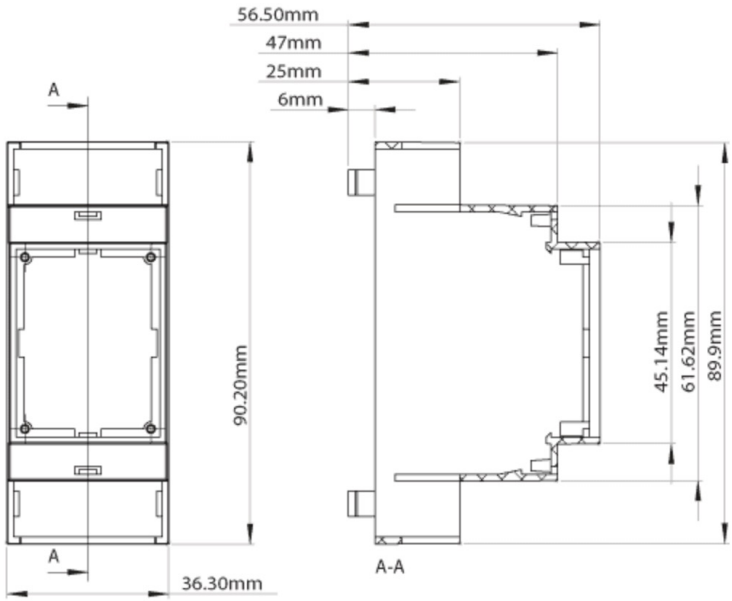
Activation type
OTAA, ABP by special request

Transmitter power
25 mW

Power supply
230 V

Operating temperatures
-40...+85 °C

Antenna type
External, SMA connector



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