

# Convert+

**Modbus RS485 to LoRaWAN®  
converter**



**An Intelligent IoT device for Remote control & Data  
acquisition**

## Product Overview

The **Convert+ Modbus RS485 to LoRaWAN® converter** serves as a sophisticated IoT controller designed for remote control and data acquisition from devices supporting the Modbus RS485 protocol.

The acquired data is transmitted through the LoRaWAN® network. With a transmission range extending up to 5-10 km in rural areas and 2 km in urban settings, it accommodates various frequency bands.

The converter is equipped with a built-in Modbus RS485 to LoRaWAN® Converter, facilitating effortless configuration and management.

This versatile solution is ideal for diverse industrial and IoT applications, including energy monitoring, smart agriculture, and industrial IoT.

## Product Features

- Support data collection from up to 12 Modbus Registers.
- Compliant with standard LoRaWAN® gateways and servers.
- Integrated Watchdog ensuring the stability of device operation.
- Local & Remote configuration options.
- Compatible with a wide range of frequency bands.

(EU868/US915/CN470/RU864/IN865)

## Specifications

General	
Power Supply	5V DC Type C Port, 5-24V VDC Terminal Block
Power Connector	Type C, 3.5mm Terminal Block
Material	ABS Housing
IP Class	IP30
Operating temperature	-10 °C to +60 °C
Storage temperature	-20 °C to +70 °C
Relative Humidity	10% to 90% (non-condensing)
Environment	Indoor
Mounting Options	Wall Mounted

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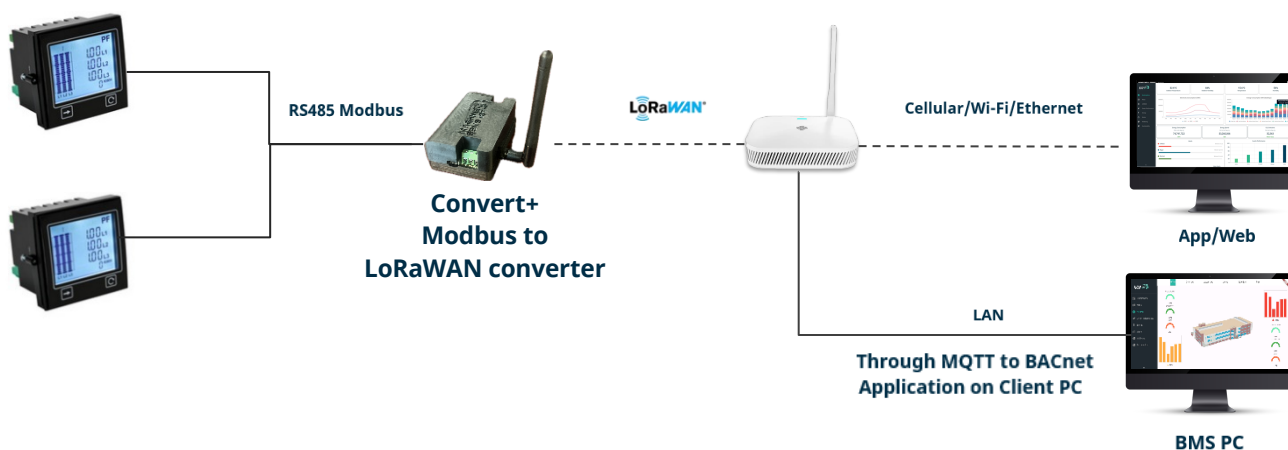
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<b>Dimensions</b>	92mm X 56mm X 30mm
<b>Power Consumption</b>	<0.45W
<b>Configuration</b>	Via PC software
<b>Configuration Port</b>	Type C
<b>Device Reset</b>	Internal Reset Button
<b>Wireless Communication</b>	
<b>Technology</b>	LoRaWAN®
<b>Frequency</b>	EU868 (868 Mhz)
<b>Tx Power</b>	16dBm (868 MHz)
<b>Sensitivity</b>	-137dBm @300bps
<b>Device Class</b>	Class C
<b>Activation Method</b>	OTTA (Over-The-Air-Activation)
<b>Antenna</b>	External
<b>Data Interface</b>	
<b>Port</b>	RS485
<b>Port Connector</b>	3.5mm Terminal Block
<b>Protocol</b>	Modbus RTU, support reading 12 register values
<b>Baud Rate</b>	1200~115200 bps

## Application Example



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