Modbus - LoRaWAN gateway

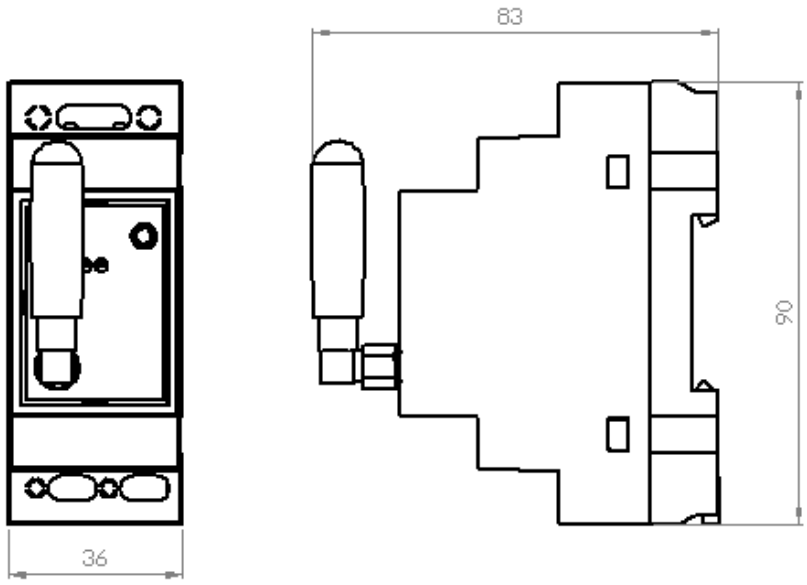
Description

This datasheet covers DS Energy's Modbus to LoRaWAN Gateway, which enables communication with Modbus devices from a remote location. The communication from the Modbus device is picked up by the gateway and sent via LoRaWAN to a LoRaWAN gateway, which can transmit the actual data to the relevant server. The relevant data can be accessed from DS Energy's backend in a simple and intuitive manner.

The module can read its configuration via LoRaWAN downlink, which makes it possible to communicate with the Modbus device via the internet from a remote location.

The module is particularly well-suited for reading measurement data from an electricity meter, water meter, gas meter, or other energy meters with a Modbus interface. Data from other Modbus products, such as industrial PLCs, can also be connected to the Modbus port for remote reading or remote configuration.

Physical dimensions and specifications



Dimensions:	36 mm (2 module) X 83 mm X 90 mm
IP Class:	20
Mechanical installation:	Din rail
Housing material:	ABS plastic

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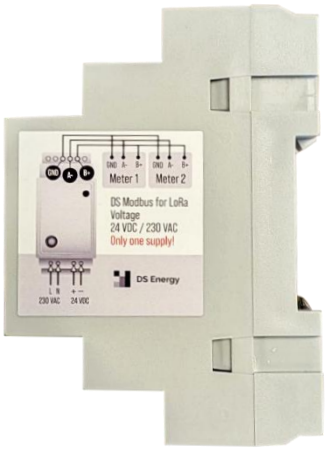
Terminal type:	Spring terminals 5mm spacing
Wire size:	Up to 1.5 mm^2
Operating temperature:	-20 °C to +60 °C
Storage temperature:	-40 °C to +85 °C
Relative humidity:	max. 90% RH (non-condensing at 40 °C)

Communication and connection



Supply voltage:	24VDC or 230VAC

NOTE! The 24VDC terminals cannot handle 230VAC. If 24VDC is supplied with 230VAC, the module will burn out and the warranty does not cover this incorrect installation.

RS485:	GND, A-, B+
Wireless:	LoRaWAN® (LoRaWAN® network)

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Wireless frequency:	EU 868 MHz ISM band or US 915 MHz ISM band
Transmission interval:	5 min to 24 hours
Antenna:	SMA-RP Female connector for fixed antenna, Option for extension cable for external antenna.
RS485:	Modbus compatible
Transmission interval:	5 min to 24 hours

Compliance

Temperature:	EN 60068-2-1, EN 60068-2-2 and EN 60068-2-14
EMC:	EN 61000-6-2 (Immunity standard for industrial environments) EN 61000-6-3 (Emission standard for industrial environments)

CE

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