

## Wired M-Bus - LoRaWAN gateway

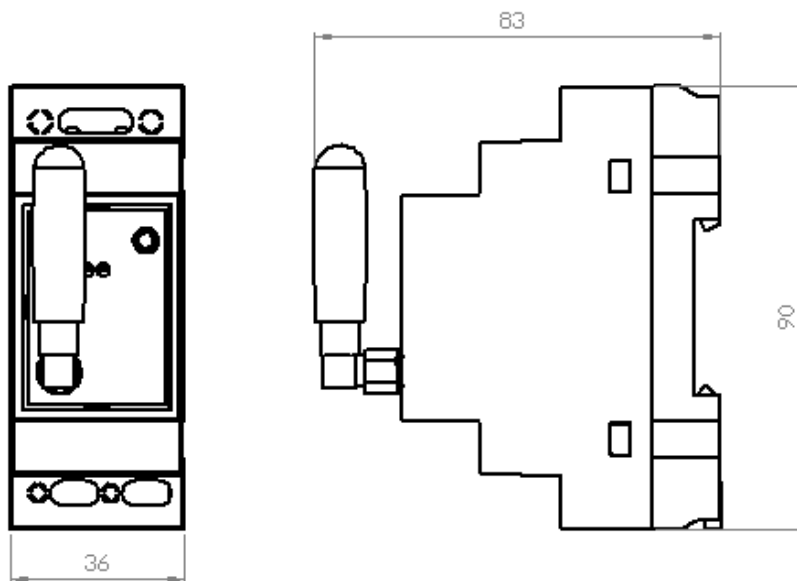
### Description

This datasheet covers DS Energy's Wired M-Bus to LoRaWAN Gateway, which enables communication with Wired M-Bus devices from a remote location. Communication from the Wired M-Bus device is received by the gateway and transmitted via LoRaWAN to a LoRaWAN gateway, which can forward the relevant data to the appropriate 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, making it possible to communicate with the Wired M-Bus device remotely via the internet.

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

### Physical dimensions and specifications



|                      |                                  |
|----------------------|----------------------------------|
| Dimensions:          | 36 mm (2 module) X 83 mm X 90 mm |
| IP rating:           | 20                               |
| Mechanical mounting: | DIN rail                         |
| Case material:       | ABS plastic                      |
| Terminal type:       | Spring terminals 5mm             |
| Wire size:           | Up to 1.5 mm <sup>2</sup>        |

|                        |                                       |
|------------------------|---------------------------------------|
| 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 withstand 230VAC. Supplying 230VAC to the 24VDC terminals will damage the module, and the warranty does not cover this incorrect installation.

|        |      |
|--------|------|
| M-Bus: | +, - |
|--------|------|

|                   |                             |
|-------------------|-----------------------------|
| Wireless LoRaWAN: | LoRaWAN® (LoRaWAN® network) |
|-------------------|-----------------------------|

|                    |                                            |
|--------------------|--------------------------------------------|
| Wireless frekvens: | 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 to external antenna. |
| M-Bus:                   | Wired M-Bus compatible                                                                     |
| Supported M-Bus devices: | Maximum 5 units                                                                            |

### 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)<br><br>EN 61000-6-3 (Emission standard for industrial environments) |

