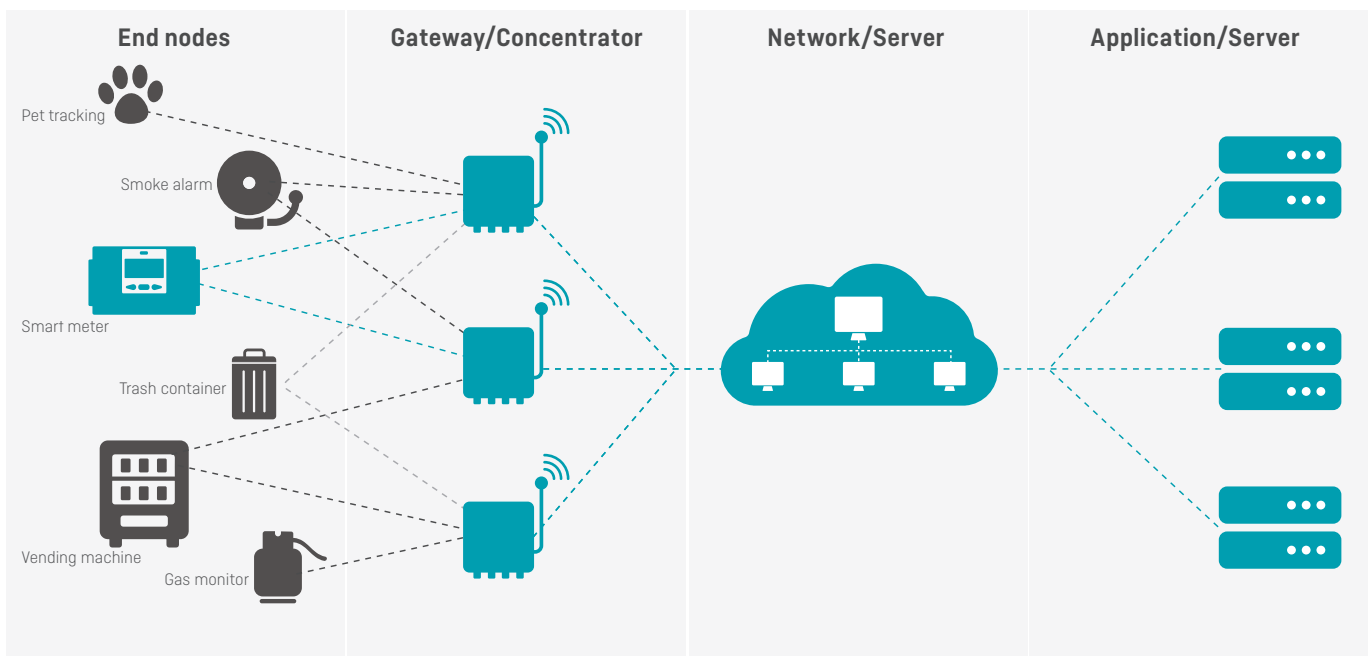


LoRaWAN[®]

Automatic meter reading of heat meters

IoT solution for MULTICAL[®] 403, MULTICAL[®] 603 and MULTICAL[®] 803



Long Range Wide Area Network – or LoRaWAN[®] – is an open technology with wide adaptation and as such not tied to a company. It can be rolled out as a public or a private network. The technology is ready and available and has the benefit of long range and low-cost hardware. Automatic meter reading using a LoRaWAN[®] network delivers frequent consumption data to your customers from the meters installed at their premises.

Elvaco AB has developed an MID-approved LoRaWAN[®] module especially for Kamstrup's heat/cooling meters MULTICAL[®] 403, MULTICAL[®] 603 and MULTICAL[®] 803.

Kamstrup has assisted Elvaco with the development and the result is a LoRaWAN[®] module able to run up to 11 years in a meter supplied by a single D-cell battery.

The LoRaWAN module is now ready for sale as a built-in, factory mounted version in our thermal energy meters.

Frequent data enables:
 Insight into consumption patterns
 Even better customer service

Consider LoRaWAN[®] if...

- You want to set up and control your own private network
- You need to connect via a public and shared network in your local area
- You are looking for an open network technology
- You want data on a daily basis
- You want long battery life
- You just want readings for billing

Technical specifications

Mechanics

Dimensions (w x h x d) 90 x 35 x 12 mm
Weight 33g

Environmental specifications

Operating temperature +5 °C to +55 °C
Operating humidity 0 to 93 % RH, no condensation
Operating altitude 0-2000 m
Pollution Degree 1
Usage environment Indoors
Storage temperature -20 °C to +60 °C

Radio characteristics

Frequency 868 MHz
Output power 14 dBm
Receiver sensitivity -135 dBm

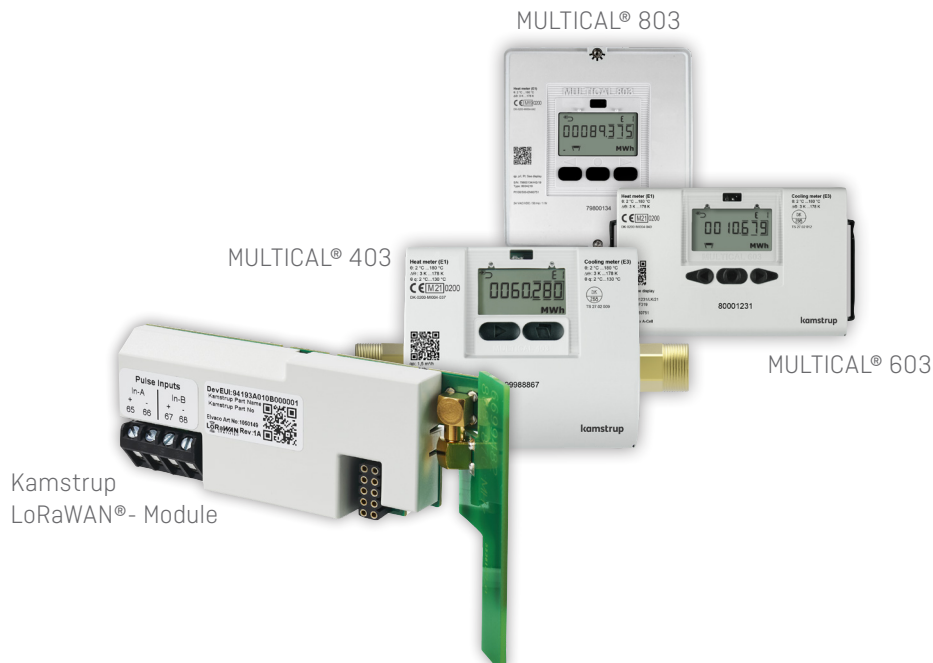
LoRaWAN® characteristics

Device class Class A, Bi-directional
LoRA version 1.0.2
Activation OTAA or ABP
Data rate DR0-DR5 [250-5470 bit/s]

User interface

Configuration NFC via Elvaco OTC app or downlink data

elvaco
elvaco.se



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