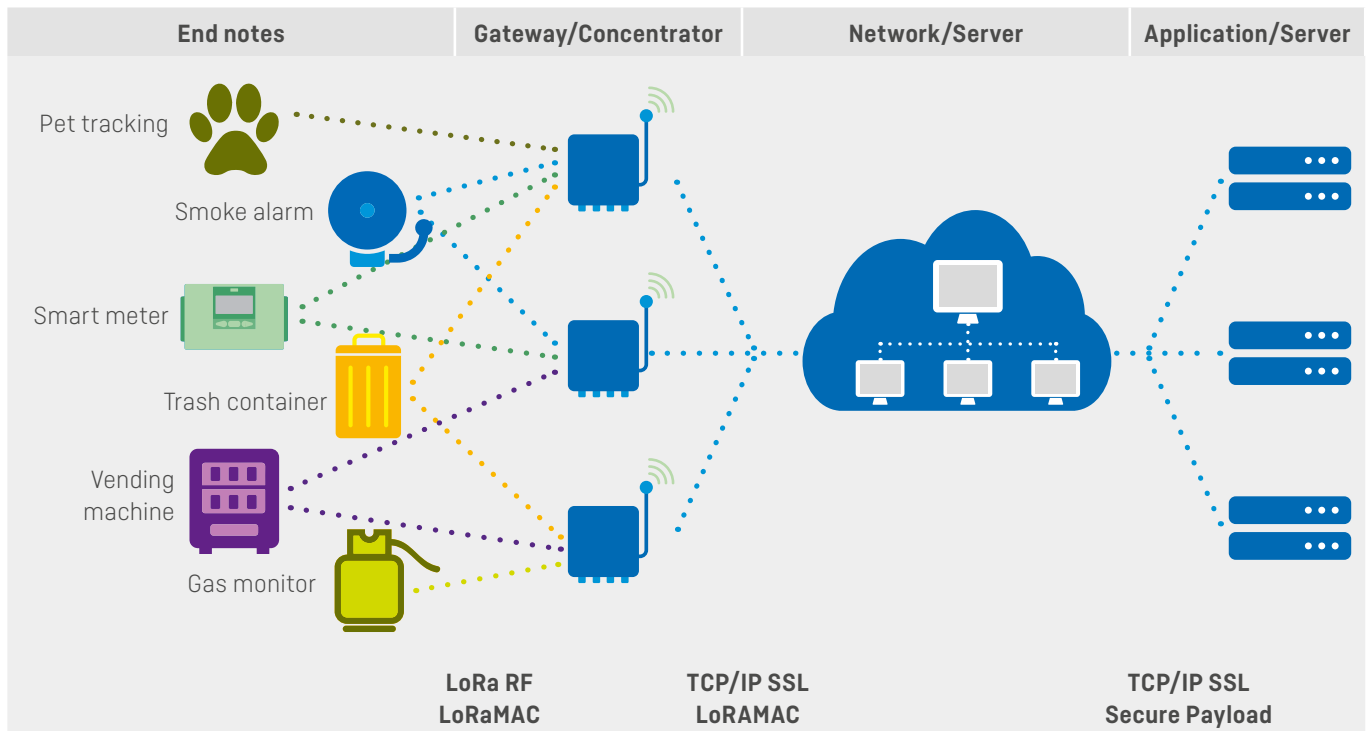


LoRaWAN® – automatic meter reading of heat meters

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 and can be ordered at Elvaco AB.

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

Protection class	IP65
Dimensions (w x h x d)	90 x 35 x 12 mm
Mounting	In MULTICAL® 403/603/803
Weight	22 g

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

Push button	Start-up / reboot / switch off module
Configuration	NFC via Elvaco OTC app or downlink data

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elvaco.se



Think forward

Kamstrup A/S

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