CMi4140

Integrated meter module for Kamstrup MULTICAL 403/603/803, LoRaWAN

CMi4140 is mounted inside a Kamstrup MULTICAL 403/603/803 to deliver meter data to a receiving server via a LoRaWAN network. CMi4140 together with the meter has 11 years of battery life, is energy-efficient, has a long communication range and is easily retrofitted inside an already deployed meter. CMi4140 is easily configured through Elvaco OTC app (via NFC). With CMi4140, Elvaco offers a meter communication module designed for customers that require a user-friendly and cost-effective solution.



Technical specification

Mechanics

Dimensions ($w \times h \times d$) 90 x 35 x 12 mm

Mounting Module slot in Kamstrup

MULTICAL 403/603/803

Weight 33 g
External antenna connection MCX

Electrical connections

Supply voltage Internal meter battery,

life span up to 11 years

Electrical characteristics

Nominal voltage 3.6 VDC

Power consumption (max) 50 mA

Power consumption ~2.5 µA

(sleep mode)

Environmental specifications

Operating temperature +5 °C to +55 °C

Operating humidity 0 to 93 % RH, no condensation

Operating altitude 0-2000 m
Pollution degree 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 DRO-DR5 (250-5470 bit/s)

User interface

Configuration NFC via Elvaco OTC app or downlink

data

Approvals

LoRa Alliance® LoRaWAN® Certified
EMC EN 301489-1, EN 301489-3

