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 x h x 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 (sleep mode)	~2.5 µA

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	DR0-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

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