CMi4110

Integrated meter module for L+G UH50/UC50, LoRaWAN

CMi4110 is mounted inside a L+G UH50/UC50 to deliver meter data to a receving server via a LoRaWAN network. The product is energy-efficient, has a long communication range and is easily retrofitted inside an already-deployed meter. With CMi4110, Elvaco offers a meter module designed for customers that require a cost-effective solution with lesser demand for bandwidth.

Technical specification

Mechanics

Protection class	IP54
Dimensions (w x h x d)	80 x 32 x 23 mm
Mounting	In Landis+Gyr UH50/UC50 module slot 2
Weight	35 g

Electrical connections

Supply voltage	Internal meter battery (D cell) or PSU (Elvaco CMip2110 230V, L+G WZU-AC230-xx or WZU-ACDC24-00)

Electrical characteristics

Nominal voltage	3.0 - 5.0 VDC
Power consumption (max)	40 mA
Power consumption (sleep mode)	2,2 µA

Environmental specifications

Operating temperature	+5 °C to +55 °C
Operating humidity	0 to 93 %, 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

Green LED	Status
Red LED	Error
Push button	Start-up / reboot / switch off device
Configuration	NFC via Elvaco OTC app or downlink data

Approvals

EMC	EN 301489-1, EN 301489-3

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