



Elvaco CMi2110

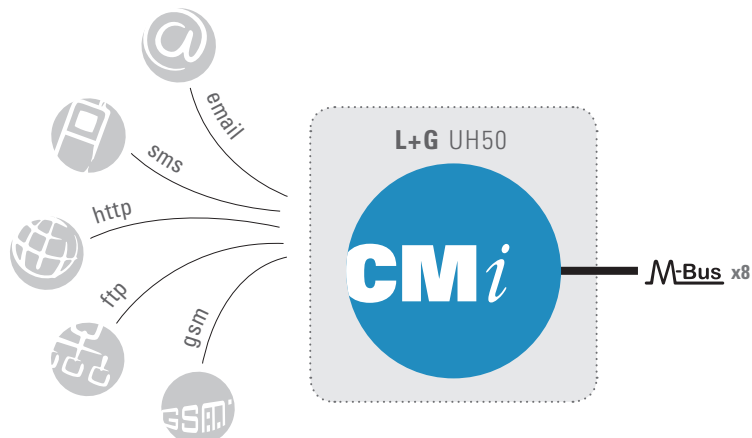
Part Code	Name	Size	Input	Output
EL211MC	CMi2110 Integrated MCM for L+G UH50	L+G Meter	Meter	GSM
EL218MC	CMi2110 Integrated MCM for L+G UH50 + 8 Meters	L+G Meter & Mbus	Meter + Mbus	GSM
EL210PO	L&G UH50 230v Power Module + power Cmi2110	230v	-	-
EL212MC	CMi2110 MCM for L+G UH50 + 230v + wall antenna	L&G Meter	Meter	GSM
EL219MC	CMi2110 MCM for L+G UH50 + 8 Meters + 230v + wall	L&G Meter	Meter + GSM	GSM

CMi2110 is a powerful and versatile meter connectivity module which is mounted inside a Landis+Gyr UH50 / UC50 heat meter to act as a Gateway for the mobile network.

The module is easily installed via text messages, and is thereafter ready to read the meter and deliver customized meter data reports to a receiving system by a selected time schedule and integration protocol via the mobile network.

Features:

- Module for Landis Gyr UH50/UC50 range of energy meters
- Requires power supply - sold separately
- GSM Connectivity
- Option for 8 additional hardwired Mbus meters to be connected to the CMi2110



Technical Specification

Mechanics

Protection Class	IP54
Dimensions (w x h x d)	85 x 38 x 25 mm
Weight	30 g
Mounting	In Landis+Gyr UH50 module slot
Antenna	Built-in, or optionally external via SMA-f
SIM Card	Slide, standard size

Electrical connection

Supply voltage	WZU-AC110/230-50 or WZUACDC24-50
Connection MBus	Push-pull connector, cable area 0.2-0.75 mm ²
USB Slave Port	Type micro B
Network	Mobile (Radio)

Electrical characteristics WZU-AC110/230-50

Nominal voltage	100-240 VAC (+/- 10%)
Frequency	50/60 Hz
Power consumption (max)	<6W
Power consumption (nom)	<1 W
Installation category	CAT 2

Electrical characteristics WZU-ACDC24-50

Nominal voltage AC	12-35 VAC
Nominal voltage DC	12-48 VDC
Frequency	50/60 Hz (or DC)
Power consumption (max)	<6W
Power consumption (nom)	<1 W
Installation category	CAT 2

Environmental specifications

Operating temperature	-20 °C to +55 °C
Operating humidity max	5 % to 90 %, non-condensing
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Indoors
Storage temperature	-40 °C to +85 °C

Approvals

EMC	EN 61000-6-2, EN 61000-6-3
Safety	EN 61010-1, CAT 2



Managed
Services

Meter Data
Management

Billing Solutions

PAYG
Management

Online Account
Management

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User interface

Green LED	Power
Red LED	Error
Yellow LED	GSM status
Blue LED	USB active
Push button	Factory reset
Configuration	SMS, HTTP, GSM CSD, Telnet

MBus

Interfaces	Integrated MBus Master
Maximum number of MBus devices (software limit)	128
Transparent MBus	GSM and TCP/IP (software limit does not apply to Transparent MBus mode)
Decryption	No

Integrated MBus Master

MBus standard	EN 13757, full MBus decoder implemented
MBus baud rate	2400 and 9600 bit/s
Nominal voltage	28 VDC
Maximum unit loads	8T/12 mA (in addition to the L+G UH50). Can be extended with CMeX10-13S Series.
MBus search modes	Primary, secondary
Maximum cable length	1000 m (100 nF/km, maximum 90 Ω)

General

Real time clock backup	12 h
Real time clock accuracy	<2 s/day
Script engine	Intelligent script engine for active content generation
Software/firmware update	Using GSM/GPRS/HTTP
Measurement reports	HTTP, FTP, SMTP (e-mail), SMS

Data Storage (examples)

Number of meters: 1	15 minute values: ~200 days, Hourly values: ~800 days
Number of meters: 32	15 minute values: ~6 days, Hourly values: ~25 days
Number of meters: 64	15 minute values: ~3 days, Hourly values: ~12 days
Number of meters: 128	15 minute values: ~1 day, Hourly values: ~6 days

Mobile Network

GPRS class	Up to 12
Band	850/900/1800/1900 MHz

Integration

Meter implementation	Landis+Gyr UH50
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Data Collection

Wired Networks

Wireless Networks

IoT Technologies

MBus & Pulse for any network

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