

CMi1020

Integrated MCM for L+G E350, M-Bus



The CMi1020 is integrated into Landis+Gyr electricity meter E350, where it converts meter data to the M-Bus protocol, controls rate inputs and sends information to the display. This makes the CMi1020 an ideal choice for meter room solutions, where meters are grouped together, but also for tenant house associations with meters positioned in the apartments.

READY TO USE

The CMi1020 is easy to install without additional configuration requirements in the field. Both primary and secondary addresses can be used. The CMi1020 have access to all information in the meter and presents it in a standard M-Bus telegram.

STANDARD OPEN PROTOCOLS

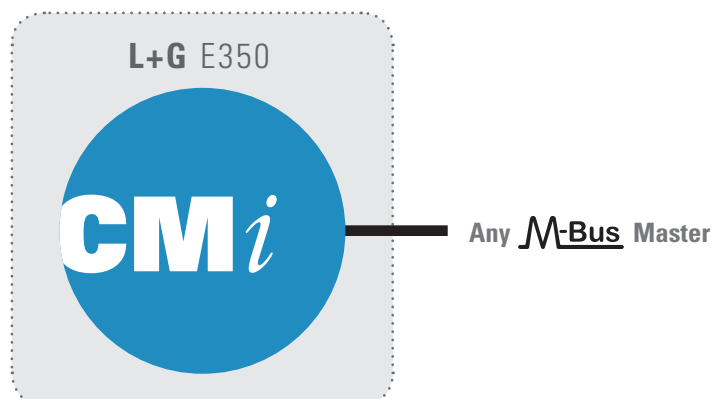
The standard open protocol design enables fast integration into any M-Bus readout system.

FLEXIBLE

The CMi1020 has a flexible design, which allows a wide range of customer implementations. The CMi1020 can control up to four rate inputs and can control meters with internal breaker for remote-controlled on and off switches.

COST EFFECTIVE

The integrated solution reduces the amount of equipment necessary in the field, which lowers both installation and initial setup costs.



Mechanics

Casing material	Polycarbonate
Protection class	IP20
Dimensions (w x h x d)	166 x 92 x 35 mm
Weight	108 g
Mounting	In Landis+Gyr E350 meter

Electrical connections

Supply voltage	From M-Bus
Rate inputs	Screw terminal. Cable 0.25-1.5 mm ² , 0.5 Nm tightening torque
Connection M-Bus	Screw terminal. Cable 0.25-1.5 mm ² , 0.5 Nm tightening torque

Electrical characteristics

Nominal voltage	21-42 VDC, independent of wiring polarity
Installation category	CAT 4, CAT 3 for rate inputs
Unit loads	1T/1.5 mA
Rate input low voltage	<24 VAC
Rate input high voltage	>24 VAC
Rate input max voltage	230 VAC
Rate input minimum detection time	5 s

Environmental specifications

Operating temperature	-20 °C to +55 °C
Operating humidity max	80 % RH at temperatures up to 31 °C, decreasing linearly to 50 % RH at 40 °C
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Indoors
Storage temperature	-40 °C to +70 °C

User interface

Green LED	Communication with meter
Red LED	Error
Push button	Breaker functionality

M-Bus

Interfaces	M-Bus slave
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M-Bus slave interface

M-Bus standard	EN 13757
M-Bus baud rate	300 and 2400 bit/s
Addressing modes	Primary, secondary
M-Bus information	All OBIS fields from meter

Integration

Meter implementation	Landis+Gyr E350
Maximum connected meters	1

Approvals

EMC	EN 61000-6-2, EN 61000-6-3
Safety	EN 61010-1, CAT 4