

COMMUNICATION

Landis+Gyr

CU-G30, G31, G32

TECHNICAL DATA



Designs

Type	GSM-Modem	RS232	RS485	CS+
CU-G30	●			
CU-G31	●	●		●
CU-G32	●		●	●

Supported Communication Protocols
IEC 62056-21 and *dlms*

Fitting
directly in meter (ZxD300/400xT or ZxQ)
in CU adapter CU-ADP1 (for other meters)

Power Consumption
Maximum Active/Apparent Power 3.0 W / 5.5 VA

GSM Modem

Standard ETS 300 607-1 / EN 301 419-1
approvals GSM Phase 2/2+, R&TTE, GCF

Functions
time window and time master functions
SMS-forwarding of alarm messages (only if fitted in meter)
modem initializing and data flow control
automatic modem reset
communication monitoring

GSM Module
type Siemens Cellular Engine TC35i
frequency bands dual band EGSM900 and GSM1800
output power
- 2 W/class 4 at EGSM900
- 1 W/class 1 at GSM1800

SIM Card
SIM 1.8 / 3 V exchangeable from outside

RS232 Interface
Only present on Type CU-G31
asymmetric, serial, asynchronous, bi-directional interface (3-wire design)
standard EIA RS232-C / CCITT V.24
maximum transmission rate 57'600 bps
maximum line length 15 m

RS485 Interface
Only present on Type CU-G32
asymmetric, serial, asynchronous, bi-directional interface (master or slave depending on parameterization)
standard ISO-8482
maximum number of slaves 31
maximum transmission rate 57'600 bps
max. line length depending on environment / cable
- up to 250 m at max. 57'600 bps+max. 31 Slaves
- up to 550 m at max. 38'400 bps+max. 31 Slaves
- up to 1000 m at max. 19'200 bps+max. 15 Slaves

CS Interface

Only present on Types CU-G31 and CU-G32
 serial, bi-directional current interface
 active or passive
 standard IEC 62056-21 / DIN 66258
 maximum number of slaves 4
 maximum transmission rate 19'200 bps
 maximum line length 3 m

Displays

LED Displays TX, RX, CON
 number of base stations receivable and field strength level (for GSM operation)
 connection and data flow

Environmental Influences

In General same as for base meter
 exception: temperature range -20 °C to +55 °C

Insulation Strength to Meter

Insulation Strength 4 kV at 50 Hz for 1 min
 insulation spacing at least 6.3 mm

Weight and Dimensions

Weight approx. 100 g

Width / Height / Depth 65 / 103 / 38 mm

Connections

Connection to Meter or CU Adapter
 10-pin connector at rear of CU

External 5 V Power Supply (only for ZxD)

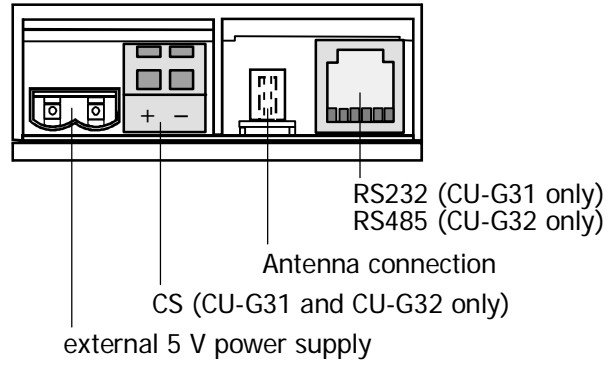
2-pin connector; recommended in the following cases for a reliable modem operation:

- meter is connected to less than three phases
- supply voltage phase – phase < 173 V
- supply voltage phase – neutral < 100 V
- meter with auxiliary power supply

CS Interface screwless spring-type terminals

Antenna Connection MCX socket
 tear-off strength < 390 N

Terminal Layout



RS232 or RS485 Interface RJ12 socket

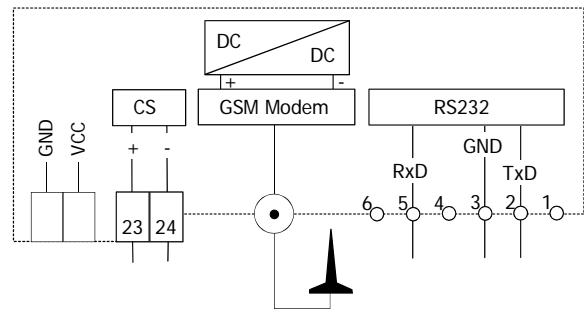
Pin allocation:	RS232:	RS485:
	1 not used	1 GND
	2 TxD	2 UP (Data a)
	3 GND	3 UN (Data b)
	4 not used	4 UN (Data b)
	5 RxD	5 UP (Data a)
	6 not used	6 GND

Material

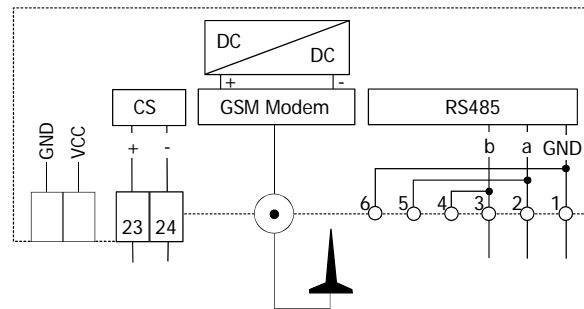
Case polycarbonate

Connection Diagram

Example CU-G31



Example CU-G32



Subject to change without notice.

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