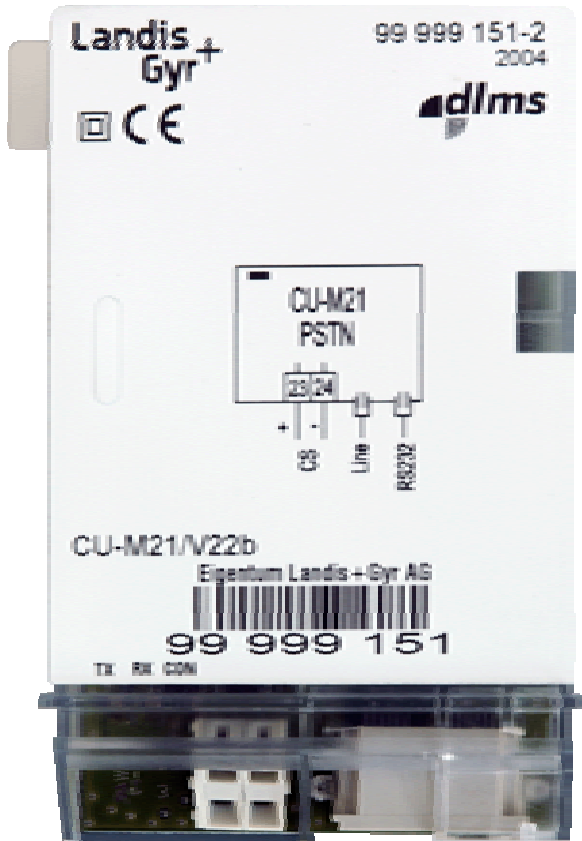


# COMMUNICATION

Landis+Gyr

## CU-M20 / M21 / M22

### TECHNICAL DATA



#### Designs

Type survey				
Type	PSTN-Modem	RS232	RS485	CS+
CU-M20/V22b	● V22b			
CU-M20/V34b	● V34b			
CU-M21/V22b	● V22b	●		●
CU-M21/V34b	● V34b	●		●
CU-M22/V22b	● V22b		●	●
CU-M22/V34b	● V34b		●	●

**Supported Communication Protocols**  
IEC 62056-21 and *dlms*

#### Fitting

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

#### Power Consumption

Max. active/apparent power 1.3 W / 2.1 VA

#### PSTN Modem

Approval TBR21

Bit Rates V22b or V34b

#### Functions

time window and time master functions  
error correction according to V.42 (only with V34b)  
modem initializing and data flow control  
automatic modem reset  
communication monitoring

#### RS232 Interface

Only present on type CU-M21

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-M22

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-M21 and CU-M22  
 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  
 connection and data flow

## Environmental Influences

In general same as for base meter

## Insulation Strength to Meter

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

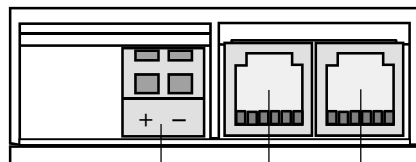
## Weight and Dimensions

Weight approx. 80 g

Width / Height / Depth 65 / 103 / 38 mm

## Connections

### Terminal Layout



CS (nur CU-M21 und CU-M22)  
 PSTN-Modem  
 RS232 (nur CU-M21)  
 RS485 (nur CU-M22)

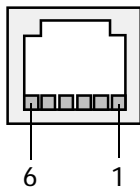
### Connection to meter or CU adapter

10-pin connector at rear of CU

CS Interface screwless spring-type terminals

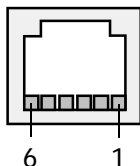
RS232 or RS485 Interface RJ12 socket

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



PSTN Modem RJ12 socket

Pin allocation:	
1	not used
2	not used
3	A wire (PSTN)
4	B wire (PSTN)
5	not used
6	not used

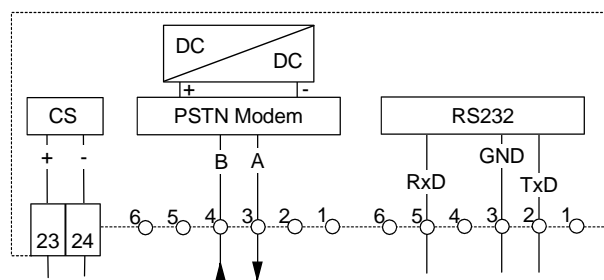


## Material

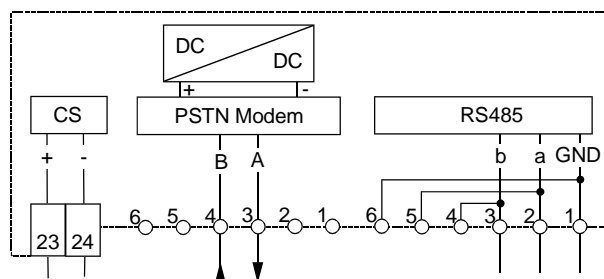
Case polycarbonate

## Connection Diagram

### Example CU-M21



### Example CU-M22



subject to technical changes

## Landis+Gyr AG

Feldstrasse 1  
 CH - 6301 Zug  
 Switzerland  
 Phone: +41 41 935 60 00  
 www.landisgyr.com

Landis+  
Gyr