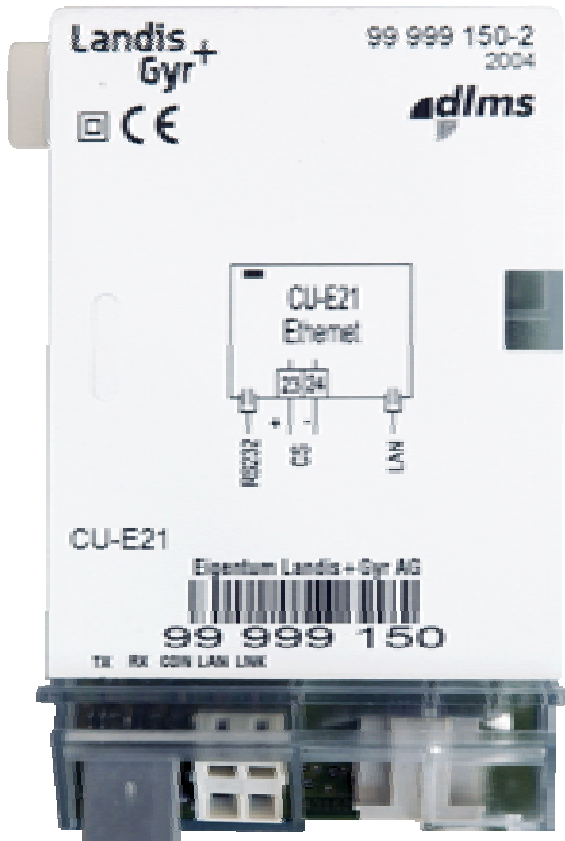


# COMMUNICATION

Landis+Gyr

## CU-E20 / E21 / E22

### TECHNICAL DATA



#### Designs

| Type survey |                     |       |       |     |
|-------------|---------------------|-------|-------|-----|
| Type        | Ethernet-Connection | RS232 | RS485 | CS+ |
| CU-E20      | ●                   |       |       |     |
| CU-E21      | ●                   | ●     |       | ●   |
| CU-E22      | ●                   |       | ●     | ●   |

**Supported Communication Protocols**  
 IEC 62056-21 and *dlms*  
 TCP/IP

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

#### Power Consumption

Max. active/apparent power 1.7 W / 2.7 VA

#### Ethernet Connection

Standard IEEE 802.3  
 port 10BaseT-Transceiver  
 (automatic polarity detection and correction)  
 maximum transmission rate 10 Mbps

**Functions**  
 time window and time master functions  
 initializing and data flow control  
 communication monitoring

#### CS Interface

Only present on types CU-E21 and CU-E22  
 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

#### RS232 Interface

Only present on type CU-E21  
 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-E22  
 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

## Displays

LED Displays TX, RX, CON, LAN, LNK  
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

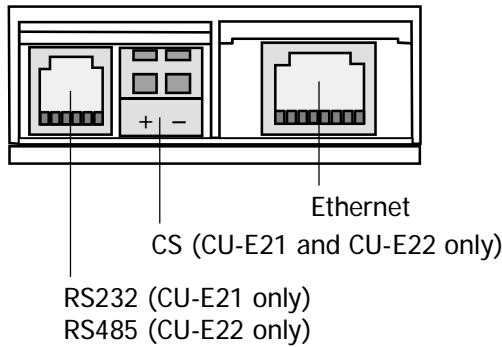
## Weight and Dimensions

Weight approx. 80 g

Width / Height / Depth 65 / 103 / 38 mm

## Connections

### Terminal Layout

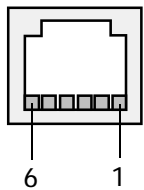


### Connection to meter or CU adapter

10-pin connector at rear of CU

### RS232 or RS485 Interface RJ12 socket

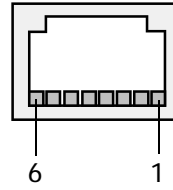
| Pin allocation: | RS232:   | RS485:        |
|-----------------|----------|---------------|
| 1               | not used | 1 GND         |
| 2               | TxD      | 2 UP (Data a) |
| 3               | GND      | 3 UN (Data b) |
| 4               | not used | 4 UN (Data b) |
| 5               |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



CS Interface screwless spring-type terminals

Ethernet Connection RJ45 socket

| Pin allocation: |          |
|-----------------|----------|
| 1               | TxD+     |
| 2               | TxD-     |
| 3               | RxD+     |
| 4               | not used |
| 5               | not used |
| 6               | RxD-     |
| 7               | not used |
| 8               | not used |

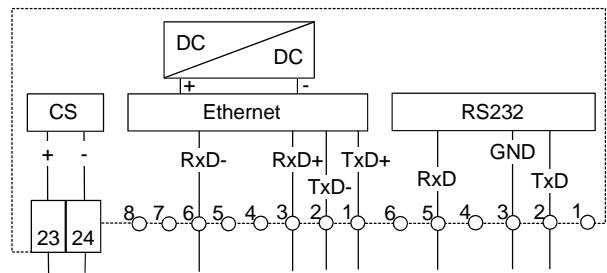


## Material

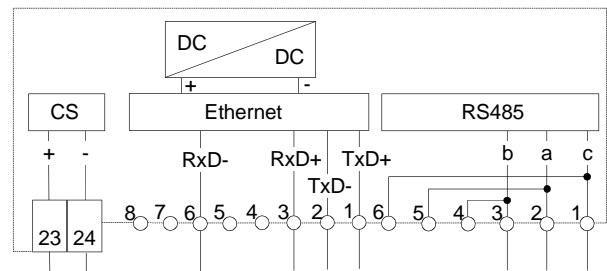
Case polycarbonate

## Connection Diagram

### Example CU-E21



### Example CU-E22



subject to technical changes

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