



CL-SCR

Interface GWFcoder®



Your benefits

- Interface converter between GWFcoder® meters and CL/CS communication devices:
Easy integration into remote meter reading systems
- Transparent mode of operation:
Unchanged transfer of read-out data to the communication device
- Clearly marked connection terminals:
Easy on-site installation

Applications

- The interface is used for the addressed readout of water and gas meters with GWFcoder® registers via a CL interface. Using the interface, it is possible to read out several meters connected in series via a modem.

Properties

- Compatible with CL standard interface IEC 62056-21
- Two versions available: 1 or 2 channels
- Depending on the type of modem, up to four meters can be connected to the bus and read out
- Polarity independent connection of GWFcoder® meter to the interface
- DIN rail mounting
- The interface can be used to connect the GWFcoder® meter with SCR(IEC) interface to a communication device with a CL interface. The communication device functions as the master (CL1) and reads out the connected meters (CL0) via the CL interface. The interface is mounted near to the communication device.
In combination with remote meter readout, it is possible to read out the register readings directly from a control centre. The remote meter readout software must support the GWFcoder® data set.

Components

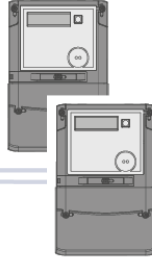
GWFcoder®-
water and gas meters
SCR(IEC)



Interface CL-SCR(IEC)



Modules CLO



Communication devices
modem, electricity meter
(CL1)



Remote meter
readout system

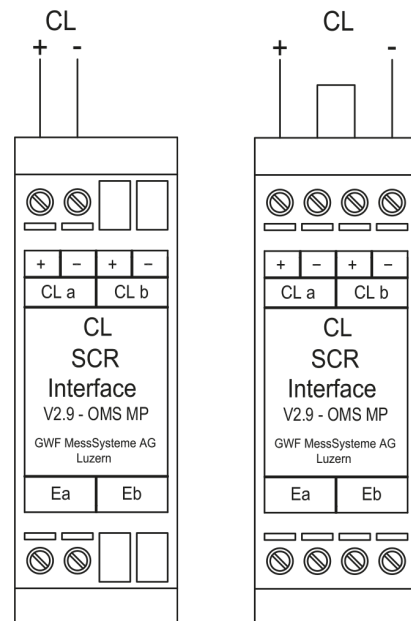


Meter connection scheme

| Meter type | | Connecting wires |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------|
| MTKcoder® IP67 | Without approval, CE Conformity (MID) | white, brown |
| MTKcoder® IP68 | Without approval, CE Conformity (MID) | black, red (green cut off) |
| MTKcoder® MP IP67 | CE Conformity (MID) | white, brown |
| MTKcoder® MP IP68 | CE Conformity (MID) | black, red (green cut off) |
| WPKDcoder WSDKcoder Meitwin with GWFcoder® WPVD with GWFcoder® | Without approval | black, red (brown cut off) |
| Meistream mit GWFcoder® Meistream Plus mit GWFcoder® Meitwin mit GWFcoder® WPV-MS with GWFcoder® | CE Conformity (MID) | white, brown |
| Meistream with GWFcoder® MP Meistream Plus with GWFcoder® MP Meitwin mit GWFcoder® MP WPV-MS with GWFcoder® MP | CE Conformity (MID) | black, red (green cut off) |

Connection and signal transfer

| | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>20 mA current loop according to IEC 62056-21</p> <p>Power supply from the active device (Master CL1).</p> <p>After Power «ON», the interface requires app. 60 s before it is ready for operation. After each meter reading, a pause of at least 60 s must be provided. The reading interval of the interface must not be less than 60 s.</p> <p>Voltage drop per GWFcoder® meter <math>\leq 5 V</math> DC</p> |
| +/- | |
| Ea | GWFcoder® register (polarity independent – channel 1) |
| Eb | GWFcoder® register (polarity independent – channel 2) |



Technical Data

Versions

One-channel – connection for one GWFcoder® meter | Two-channel – connection for two GWFcoder® meters

Data transfer

| | |
|-----------------------------|---------------------|
| GWFcoder® meter version 5.x | 300 baud 7E1 mode A |
| GWFcoder® meter version 4.x | 300 baud 7E2 mode A |

The interface functions transparently and does not save data – readout data is transferred to the communication device without being modified.

Installation

The interface should be installed directly at the communication device.

Max. cable length

| | |
|----------------------|-------|
| SCR connection cable | 150 m |
|----------------------|-------|

Type of cable

| | |
|----------------------|-------------------|
| SCR connection cable | U72 (1 x 4 x 0,8) |
|----------------------|-------------------|

Dimensions and weight

| | |
|------------|-----------------|
| Dimensions | 25 x 78 x 47 mm |
| Weight | app. 50 g |

Application area

| | |
|------------------|----------------|
| Temperature | -10 to + 60 °C |
| Protection class | IP40 |

Interfaces

CL standard according to IEC 62056-21

Inductive according to SCR / Protocol IEC 62056-21