

Safety instructions

Observe the notes on power supply. No other form of power supply other than specified in these instructions may be used.

Conventional batteries must never be charged. Danger of explosion!

Do not throw batteries into fire! Do not short-circuit batteries!

Only operate device indoors and avoid influence of humidity, dust, sun and heat.

Proper use

The Gira gas meter sensor is for the determination of gas consumption data at Elster diaphragm gas meters with standard counter with magnet controller.

Uses other than those specified in these operating instructions are not in accordance with the intended purpose and lead to exclusion of warranty and liability. This is also the case with modifications and conversions.

The values measured are not suitable for purposes of public information. The device is intended solely for private use and not for invoicing.

The main meter is usually sealed and is the property of the power supply company. Modifications are prohibited. If measurement devices are installed, these must not influence the meter and must be removable without trace. The gas meter sensor is designed to fulfill these requirements. No modifications to the meter or gas supply are required due to contactless, magnetic determination of measurement data.

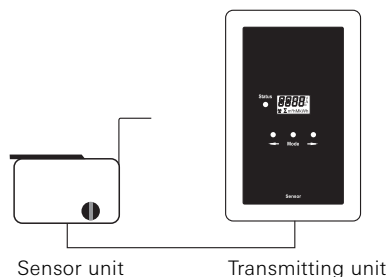
Functional description

The Gira gas meter sensor consists of a sensor unit and a transmitting unit.

The sensor unit registers the pulses of the magnet controller from the counter of the gas meter and passes these on to the transmitting unit. This transmits the pulse data to the Gira energy and weather display.

The transmitting unit has LED lights and a display. The LED lights up when a radio transmission occurs. In normal operation and after pressing a button, the display shows the mean rate of flow per hour in m³ between two meter pulses, for a period of three minutes.

The sensor unit and transmitting unit are accommodated in separate housings for optimal positioning. In this way the sensor unit can be positioned directly at the gas meter and the transmitter unit can be positioned at a location with good radio reception with the aid of a connection cable.



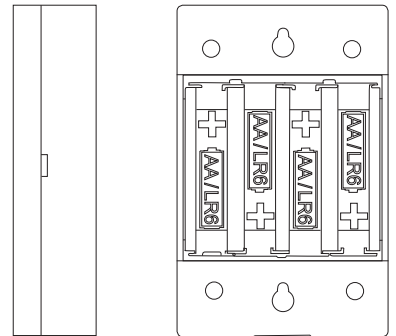
Sensor unit

Transmitting unit

Inserting/replacing batteries

The sensor unit is supplied with voltage via the transmitting unit. This is operated with four alkaline batteries (1.5 V, type LR06, Mignon, AA). Both sides of the transmitting unit have small indentations to open the battery compartment.

1. Insert a screwdriver into the indentations and pull off the battery compartment cover.
2. Insert four LR06 batteries with correct polarisation into the transmitting unit.
3. Replace the battery compartment cover and snap in.



Side view

Battery compartment



Using batteries

The gas meter sensor may only be operated with alkaline batteries. Rechargeable batteries must not be used.

"Empty battery" display

With empty batteries, **bAt** appears (alternating with the normal display) in the display of the transmitting unit.

If this is the case, replace the station's batteries. The assignment to the energy and weather display is maintained when replacing the battery.

Assigning the transmitter

Radio components must be assigned to each other to enable communication.

1. Press and hold ► for 3 seconds at the transmitting unit.
 - ✓ The transmitting unit now transmits an assignment signal every five seconds for the next five minutes. The LED of the transmitting unit lights up for the duration of this assignment procedure.
2. Trigger the programming mode on the energy and weather display within these five minutes (see operating instructions for the energy and weather display).
 - ✓ After start-up the transmitting unit displays the version number as well as a m³ for 1 second. This signals that the sensor has been assigned.
 - ✓ The energy and weather display then displays the gas meter data.
3. Pressing ► again exits the programming mode of the sensor.

A sensor can be assigned to any number of energy and weather displays.

Deleting the assignment

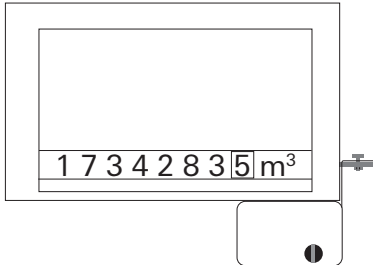
Deletion of the gas meter sensor assignment is only possible at the energy and weather display.

Installation

Mounting the sensor unit

1. Hook the sensor unit into the mounting console to the right of the counter and fasten with the included nut and screw.
Do not damage the seal of the meter!
2. Insert the long sealing pin into the housing from the front.

Additional sealing is not required because the gas meter sensor is not used for invoicing. Additional sealing parts are however included in case supplementary sealing is desired.



Sensor unit on mounting console

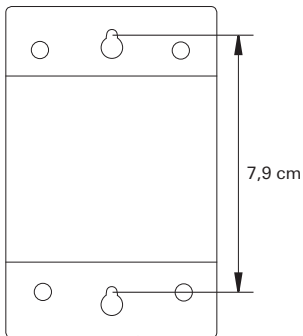


Sealing pin

Mounting the transmitting unit

1. Connect the transmitting unit to the sensor unit with the connection cable.
2. Test whether the energy and weather display is receiving data regularly from the transmitting unit. If necessary, modify the position of the transmitting unit or energy and weather display to establish good radio communication.

For wall mounting, use the two keyholes on the rear.



1. Mark the drilling holes.
2. Drill the mounting holes (Ø 5 mm) and insert the included dowels.
3. Fasten the included screws. These must protrude by approx. 0.5 cm for the transmitting unit to be hung on.

Setting the meter constant

For correct measurements, the meter constant specified on the meter must be set. The meter constant specifies the required rate of flow for a pulse of the pulse device (e.g. 1 pulse = 0.066 m³).

The meter constant is usually printed on the gas meter. If not, the value can be obtained from your power supply company.

1. Press and hold **Mode** for more than 2 seconds.

- ✓ The display shows the currently set meter constant in m³/pulse and the LED of the transmitting unit lights up.



2. Set the required meter constant with ◀ and ▶. Counting up and down is accelerated if the buttons are pressed and held longer than 2 seconds.
3. Press **Mode** to save the value and return to normal operation.

- ✓ If no button is pressed for longer than 60 seconds the device automatically returns to normal operation. The set meter constant is saved in this case.

- ✓ The LED of the transmitting unit displays each transmission by intermittently lighting up until 10 minutes after the last button press at the transmitting unit.

- ✓ For the next 3 minutes, gas consumption between the last two pulses is displayed in m³.

No signalling is output after this to protect the service life of the batteries.

To activate triggering of the LEDs for 10 minutes, briefly press any button of the transmitting unit.

Transmission behaviour and radio interference

The transmitting unit transmits data at periods of 2 – 3 minutes to the energy and weather display. Radio transmission occurs on a non-exclusive transmission path, and interference cannot be excluded for this reason. For further information please consult the energy and weather display operating instructions.

In order to manually restore synchronisation, the assignment of the transmitting unit can be deleted and reassigned by the energy and weather display, as specified in the "Assigning the transmitter" section.

Maintenance and cleaning

The product is maintenance-free apart from battery replacement. Leave repair to a qualified expert.

Clean the product with a clean, soft, dry and lint-free cloth.

The cloth may be dampened with luke-warm water for removal of heavier soiling. Do not use solvent-based cleaning materials. The plastic housing and inscription may be adversely affected.

Waste disposal information



Remove empty batteries immediately and dispose of them in an environmentally-friendly way. Do not throw batteries into the domestic refuse. Local authorities inform about environmentally-compatible disposal. The end consumer is legally required to return used batteries in accordance with legislative requirements.

Technical data

Power supply:	6 V
Batteries:	4 x alkaline 1.5 V (LR06, Mignon, AA)
Do not use rechargeable batteries!	
Current consumption:	approx. 105 µA
Meter constant (can be set):	0.001 to 1 m ³ / pulse
Transmission interval:	2 to 3 minutes (dynamic)
Transmission frequency:	868.35 MHz
Free field range:	100 m
Ambient temperature:	0 to 50 °C
Dimensions (W x H x D)	
Transmitting unit:	68 x 105 x 30 mm
Sensor unit:	57 x 35 x 25 mm



Note

The manufacturer or seller of this gas meter sensor accepts no responsibility for incorrect measurement values and any consequences that may ensue.

Declaration of Conformity

The gas meter sensor may be operated in all EU and EFTA countries.

The declaration of conformity can be downloaded at www.download.gira.de.

Warranty

We provide a warranty in accordance with the statutory requirements.

Please send the device postage paid with error description via the specialist trade to our central customer service centre.

Gira
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Service Center
Dahlienstraße 12
42477 Radevormwald