

Heat and cold meter

Ultrasonic, with integrated communication interface



User manual

Installation/operation

Read through carefully before use. Keep accessible throughout the product lifetime.

Doc no.: FUSQUHEG80 USCOM07-A | Doc. date: 23.05.2024

Scope of delivery	
1 x meter	
1 x temperature sensor kit	
1 x flow sensor kit	
1 x connection cable kit	
1 x connection cable (depending on the device variant)	
1 x user manual	
 Do not use any objects to pierce the two openings in the flow sensor!	
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Safety notes for lithium batteries

The calculator unit of the meter is equipped with a lithium battery. Lithium batteries are safe provided they are handled properly under the parameters specified by the manufacturer.

Proper handling

- Observe the specified ambient conditions when transporting, storing and using the device.
- Avoid mechanical impacts such as dropping or crushing.
- Mechanical damage such as opening, drilling through or dismantling the batteries is prohibited.
- Avoid a short-circuit caused by e.g. foreign matter or water.
- Avoid thermal overload e.g. from constant exposure to sunlight or fire.

Transport

- Special requirements on packaging and marking must be heeded during shipping by all carriers (air, road, rail, sea, inland waterways). The national and international hazardous goods regulations respectively valid must be heeded.
- Lithium batteries are always subject to the requirements of hazardous goods laws.
- Batteries meet the basic requirements on transport.

Danger caused by improper handling

- Incorrect treatment or circumstances which lead to improper operation can lead to leaks and battery content materials and decomposition products escaping. In this context, major reactions can take place which present a risk to both health and the environment. (Gas development and fire)
- Technical defects or improper handling can lead to an uncontrolled and accelerated release of the chemically stored energy. This is usually released in the form of thermal energy, which can lead to a fire.

Emergency instructions

- In the event of the content materials of the lithium batteries coming into contact with the eyes or skin, rinse thoroughly with water for at least 15 minutes. A doctor must always be contacted.
- A doctor must always be contacted if gases or smoke are inhaled.
- Burns must be treated accordingly and a doctor must be contacted.
- If there is intensive smoke development or gas release, leave the room immediately. Ensure there is sufficient ventilation without putting yourself in danger if possible, in other words without inhaling the gas or smoke.
- If swallowed, drink plenty of water and rinse your mouth out.
- Seek medical advice immediately.

Safety of lithium batteries

Disposal

For the purposes of disposal, the device is considered a used electronics device in the sense of the European Guideline 2012/19/EU (WEEE).

It must not be disposed of with household waste.

Disposal information is available at the following internet address:
www.qundis.com

In countries of the European Community excepting Germany, information about correct disposal can be obtained from your dealer or sales.

Notes and warranty

Important notes

This product must be installed properly and in accordance with the specified assembly guidelines and may therefore only be installed by qualified, trained and skilled personnel.

Intended use

The meters are used for the central recording of thermal energy consumption.

Non-intended use

Any other use other than the above described or any modification of the device is considered to be non-intended use.

Warranty and guarantee

Warranty and guarantee claims are only valid if the product in question has been used in accordance with their intended use and if technical requirements and any applicable technical regulations have been observed.

Safety notes

Improper handling and excessively forceful tightening of threaded fittings can cause leaks. Observe the maximum torque stated in the manual.

Technical data

	0.6 m³/h	1.5 m³/h	1.5 m³/h	2.5 m³/h	3.5 m³/h	3.5 m³/h	6.0 m³/h	6.0 m³/h	10.0 m³/h	10.0 m³/h
Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
Connection	G ½ B	G ½ B	G 1 B	G 1 B	G 1½ B	G 1½ B	G 1½ B	G 1½ B	G 2 B	G 2 B
Weight	530 g	530 g	660 g	660 g	875 g	1173 g	875 g	1173 g	1390 g	1750 g

Installation location
(can be switched up to 50 litres cumulative flow)

	not necessary (U0/D0)	any
Minimum flow q _l	12 l/h	15 l/h
Maximum flow q _s	1200 l/h	3000 l/h
Start-up limit q _s	6 l/h	6 l/h
Dynamic range q _l /q _s	1:50	1:100
Precision class	3	2
Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as heat meter	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as cold meter	5 °C ... 50 °C	5 °C ... 50 °C

Ambient conditions

Transport	-25 °C ... 70 °C < 95 % relative humidity (without condensation)
Storage	-5 °C ... 45 °C < 95 % relative humidity (without condensation)
Operation	5 °C ... 55 °C < 95 % relative humidity (without condensation)

Temperature sensor

Measuring element	Pt1000 according to EN 60751
Version	Type DS
Diameter	5,0 mm - 5,2 mm - 6,0 mm - AGFW
5,2 mm - direct (ball valve) / indirect (immersion sleeve) ¹⁾	
6,0 mm - direct (ball valve) / indirect (immersion sleeve) ¹⁾	
AGFW 27,5 mm - direct (ball valve)	
AGFW 38 mm (≥ 2 x 3,5 mm) - direct (ball valve)	

Type of installation

Standard	1,5 m
Optional	3,0 m

Cable length:

Standard	1,5 m
Optional	3,0 m

Technical data

	0.6 m³/h	1.5 m³/h	1.5 m³/h	2.5 m³/h	3.5 m³/h	3.5 m³/h	6.0 m³/h	6.0 m³/h	10.0 m³/h	10.0 m³/h
Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
Connection	G ½ B	G ½ B	G 1 B	G 1 B	G 1½ B	G 1½ B	G 1½ B	G 1½ B	G 2 B	G 2 B
Weight	530 g	530 g	660 g	660 g	875 g	1173 g	875 g	1173 g	1390 g	1750 g

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Precision class	3	2
Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as heat meter	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as cold meter	5 °C ... 50 °C	5 °C ... 50 °C

Ambient conditions

Transport	-25 °C ... 70 °C < 95 % relative humidity (without condensation)
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Type of installation

Standard	1,5 m
Optional	3,0 m

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Technical data

	0.6 m³/h	1.5 m³/h	1.5 m³/h	2.5 m³/h	3.5 m³/h	3.5 m³/h	6.0 m³/h	6.0 m³/h	10.0 m³/h	10.0 m³/h
Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
Connection	G ½ B	G ½ B	G 1 B	G 1 B	G 1½ B	G 1½ B	G 1½ B	G 1½ B	G 2 B	G 2 B
Weight	530 g	530 g	660 g	660 g	875 g	1173 g	875 g	1173 g	1390 g	1750 g

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Start-up limit q _s	6 l/h	6 l/h
Dynamic range q _l /q _s	1:50	1:100
Precision class	3	2
Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as heat meter	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as cold meter	5 °C ... 50 °C	5 °C ... 50 °C

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Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
Connection	G ½ B	G ½ B	G 1 B	G 1 B	G 1½ B	G 1½ B	G 1½ B	G 1½ B	G 2 B	G 2 B
Weight	530 g	530 g	660 g	660 g	875 g	1173 g	875 g	1173 g	1390 g	1750 g

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Start-up limit q _s	6 l/h	6 l/h
Dynamic range q _l /q _s	1:50	1:100
Precision class	3	2
Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as heat meter	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as cold meter	5 °C ... 50 °C	5 °C ... 50 °C

Ambient conditions

Transport	-25 °C ... 70 °C < 95 % relative humidity (without condensation)
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Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
Connection	G ½ B	G ½ B	G 1 B	G 1 B	G 1½ B	G 1½ B	G 1½ B	G 1½ B	G 2 B	G 2 B
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Dynamic range q _l /q _s	1:50	1:100
Precision class	3	2
Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as heat meter	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as cold meter	5 °C ... 50 °C	5 °C ... 50 °C

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Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
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Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
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Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as heat meter	5 °C ... 90 °C	5 °C ... 90 °C
Temperature range as cold meter	5 °C ... 50 °C	5 °C ... 50 °C

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Nominal diameter	15 mm	15 mm	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	40 mm	40 mm
Length	110 mm	110 mm	130 mm	130 mm	150 mm	260 mm	150 mm	260 mm	200 mm	300 mm
Connection	G ½ B	G ½ B	G 1 B	G 1 B	G 1½ B	G 1½ B	G 1½ B	G 1½ B	G 2 B	G 2 B
Weight	530 g	530 g	660 g	660 g	875 g	1173 g	875 g	1173 g	1390 g	1750 g

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Start-up limit q _s	6 l/h	6 l/h
Dynamic range q _l /q _s	1:50	1:100
Precision class	3	2
Pressure loss at q _l	20 mbar	130 mbar
Min. system pressure to avoid cavitation ¹⁾	1 bar	1,5 bar
Max. permissible operating pressure	5 °C ... 90 °C	5 °C ... 90 °C

Standard levels

The displays on level L0 - L9 appear depending on the device configuration.

L0 Actu *

L1 Annu *

L2 Curr *

L3 PRrR *

L4 Conn *

L5 HErE *

L6 CoOL *

L7 PuL1 *

L8 PuL2 *

L9 H16H *

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Display level L0 – Current consumption values

Display level L0 Actu *

Display test: Everything on, Error number, Consumption value: current meter status⁽¹⁾

Annual consumption values⁽¹⁾

Display level L1 – Annual consumption values

Display level L1 Annu *

Annual consumption values⁽¹⁾

(1) Display depends on device configuration

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Display level L2 – Current values

Display level L2 Curr *

Current flow

Current supply flow temperature

Current return flow temperature

Current temperature difference

Current capacity

Operating hours

Cumulated volume

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Display level L3 – Parameter

Display level L3 PRrR *

Next due date⁽¹⁾

Levels, installation location, display units⁽¹⁾

Serial number Imp1⁽¹⁾

Meter reading Imp1⁽¹⁾

Pulse value Imp1⁽¹⁾

Serial number Imp2⁽¹⁾

Meter reading Imp2⁽¹⁾

Pulse value Imp2⁽¹⁾

Identification

(1) Parameterisable

(2) Display depends on device configuration

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Display level L4 – Connections

Display level L4 Conn *

Primary address M-Bus heat⁽¹⁾

Primary address M-Bus cold⁽¹⁾

Primary address M-Bus Imp1⁽¹⁾

Primaradresse M-Bus Imp2⁽¹⁾

Display level L5 – Monthly values heat

Display level L5 HErE *

Latest monthly value heat

Oldest monthly value heat

(1) Display depends on device configuration

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Display level L6 – Monthly values cold

Display level L6 CoOL *

Latest monthly value cold

Oldest monthly value cold

Display level L7 – Monthly values Imp1

Display level L7 PuL1 *

Latest monthly value Imp1

Oldest monthly value Imp1

Display level L8 – Monthly values Imp2

Display level L8 PuL2 *

Latest monthly value Imp2

Oldest monthly value Imp2

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Display level L9 – Maximum values

Display level L9 H16H *

Supply flow

Return flow

Flow

Error messages

Error display

Error description

Measure/notes

FLa-dr *

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Parameter setting – key assignment

Navigating within the levels

Parameter setting mode PIN

Activating parameter setting mode

Reset consumption meter number

Parameter settings primary address for M-Bus

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Parameter setting

Setting parameters for due date

Setting parameters for installation location, display units and levels

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Display units and levels

Determining display units

Example of level displays

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Parameter setting pulse inputs

Adjustment options: Pulse valence, units, filters

Set filter

The filter settings can be found in the display level L3 "Parameters" when parameterising the pulse inputs 1 and 2.

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Parameter setting

Parameter settings pulse input 1 (Imp1) for external consumption meter (Part 1)

Display level L3 – "Imp1" display

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Continuation: Parameter settings pulse input 1 (Imp1) (part 2)

Display level L3 – "Imp1" display

Reset consumption meter number

Parameter settings primary address for M-Bus

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Dimensions

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Declaration of conformity

EU Declaration of conformity

Déclaration UE de conformité

EU-Konformitätserklärung

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