

Picture similar

Q water 5.5

MID-compliant, electronic water meter for screw connection

- › metal flow sensor with nominal flow q_p 2,5 m³/h and 4,0 m³/h
- › available in the installation lengths 80 mm, 110 mm and 130 mm
- › integrated radio technology for integration into a Q walk-by or Q AMR system
- › integrated IR interface for simple parameter setting or readout
- › simple mounting for almost any installation situation

Application

The electronic water meter is used to measure water quantities. The main areas of application are water supply systems in which water is supplied individually to several consumers.

Such systems are used in e.g.:

- › apartment buildings
- › offices and administration buildings

Typical users are:

- › private building owners
- › housing industry and housing associations
- › building service companies and property management

Features

- › measuring water consumption
- › accumulating the consumption values
- › saving the accumulated consumption values on the due date
- › display of consumption values
- › display of the most important operating data
- › self-monitoring with error display data transmission via radio
- › detection of leakage
- › parameter setting and readout via optical interface (IR-compatible)

Radio (wireless) features C-Mode

- › Radio system – parallel transmission of Q walk-by- and OMS® -conformal data telegrams
- › Increased radio performance
- › No change with the remote sensor system


| Q walk-by | Q AMR |
|---|--|
| every 112 seconds | every 450 seconds (7.5 minutes) |
| 10 hours per day (8 am ... 6 pm) | 24 hours per day |
| 365 days a year | 365 days a year |
| Transmitted data: | Transmitted data: |
| › current consumption value with date | › current consumption value with date |
| › last month's value with date and values from previous 12 months | › last month's value with date |
| › due date value with date | › due date value with date |
| › device status: error code and error date | › device status: error code and error date |

Radio (wireless) features S-Mode

- › Radio system – parallel transmission of Q walk-by- and Q AMR-data telegrams
- › Increased radio performance
- › Transmission delay (offset)
Time delay for sending data telegrams after the due date or at the beginning of the moth in days (standard = 0 days)
- › Transmission-free day
A maximum of 2 days from Friday, Saturday and Sunday can be defined as transmission-free days At least 1 day must be set (standard = Sunday)
- › No change with the remote sensor system

| Q walk-by | Q AMR |
|---|--|
| every 128 seconds | every 4 hours |
| 10 hours per day (8 am ... 6 pm) | 24 hours per day |
| monthly: 4 readout dates after the first day of each month | 7 days per week |
| annual: 48 hours after due date | 365 days per year |
| Transmitted data: | Transmitted data: |
| › current consumption value with date | › current consumption value with date |
| › last month's value with date and values from previous 12 months | › last month's value with date |
| › due date value with date | › due date value with date |
| › device status: error code and error date | › device status: error code and error date |

Technical data

| General | |
|---|--|
|  | <p>QUNDIS GmbH hereby declares that the electronic water meter Q water 5.5 complies with directives 2014/53/EU (RED), 2011/65/EU (RoHS) .</p> <p>The full text of the EU Declaration of Conformity is available at the following Internet address: https://qundis.com/service/downloads-and-information/eu-declaration-of-conformity/#qr01</p> |
| Ambient conditions | |
| Protection rating | IP65, IP68 according to EN 60529 |
| Protection class | III according to EN 61140 |
| Transport | -25 °C ... 70 °C, < 95 % r.F. (without condensation) |
| Storage | -5 °C ... 45 °C, < 95 % r.F. (without condensation) |
| Usage | 5 °C ... 55 °C, < 95 % r.F. (without condensation) |
| Standards | |
| Interference resistance and interference emission | EN 301 489-1, EN 301 489-3 |
| Safety | EN 62368-1 |
| Influencing quantities | |
| Electromagnetic class | E1 |
| Mechanical class | M1 |

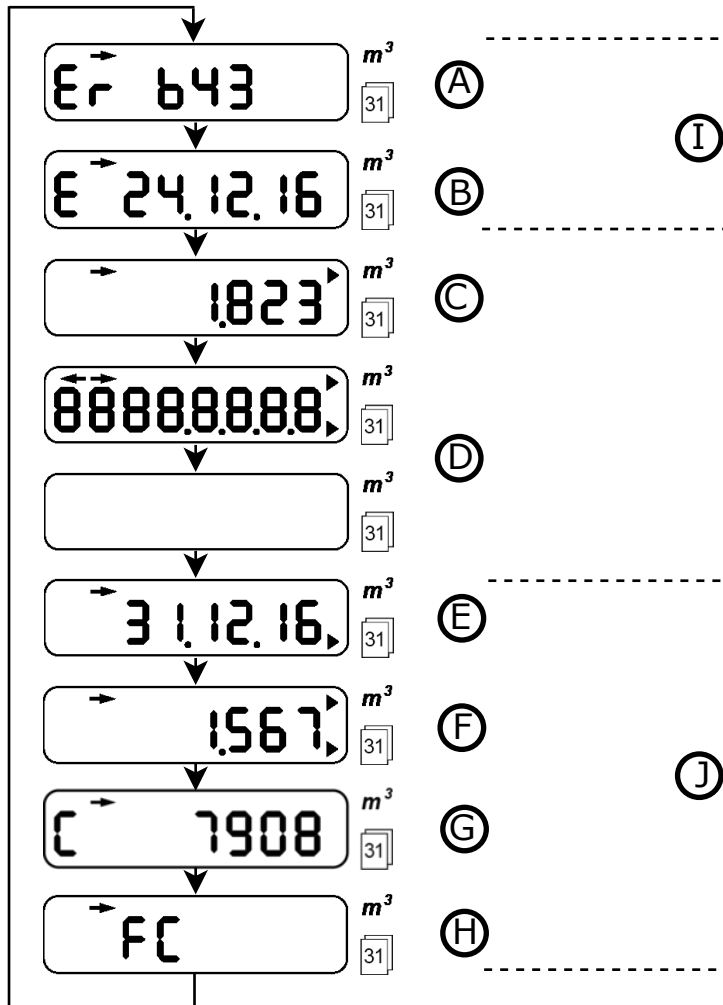
| Radio technology | | | |
|--|---|--|-------------------------|
| Radio mode | S-Mode (Q AMR, Q walk-by) C-Mode (Q AMR, Q walk-by) | | |
| Radio frequency | EN 300 220-2 S-Mode (868.30 +/- 0.30) MHz C-Mode (868.95 +/- 0.25) MHz | | |
| Transmission power | typical 10 dBm, maximum 14 dBm | | |
| Encryption ¹ | Security Mode 5 according to EN 13757-7, Security Profile A according to OMS specification | | |
| Data transmission | EN 13757-4 | | |
| Duty Cycle | < 1 % (50ms/128 s) | | |
| Power supply | | | |
| Lithium battery | Nominal voltage 3.0 V | | |
| Battery life | 10 years operation + 1 year reserve + 1 year storage | | |
| Flow sensor | | | |
| Max. permissible operating pressure (MAP) | 1.6 MPa (16 bar) | | |
| Pressure loss class according to ISO 4064 | Δp 63 | | |
| Inflow and outflow zone | not required (U0/D0) | | |
| Type overview | WME5 xxxx 0 | WME5 xxxx 1 | WME5 xxxx 2 |
| Overall length | 80 mm | 110 mm | 130 mm |
| Meter size / Continuous flow Q_3 | 2.5 m ³ /h | | 4.0 m ³ /h |
| Corresponds to previous nominal size Q_n | 1.5 m ³ /h | | 2.5 m ³ /h |
| Connection thread | G 3/4" | | G 1" |
| Overload flow rate Q_4 | 3.125 m ³ /h | | 5,000 m ³ /h |
| Transition flow rate Q_2 (H/V) | 50/100 l/h | | 80/160 l/h |
| Minimum flow rate Q_1 (H/V) | 31.25/62.5 l/h | | 50/100 l/h |
| Dynamic range Q_3/Q_1 (H/V) ² | | R80/R40 | |
| Permanent load Q_3 | 2,500 l/h | | 4,000 l/h |
| Temperature class MAT | | Cold water T30 or Hot water T30/T90 | |

¹ Encryption optional

² further dynamic ranges on request

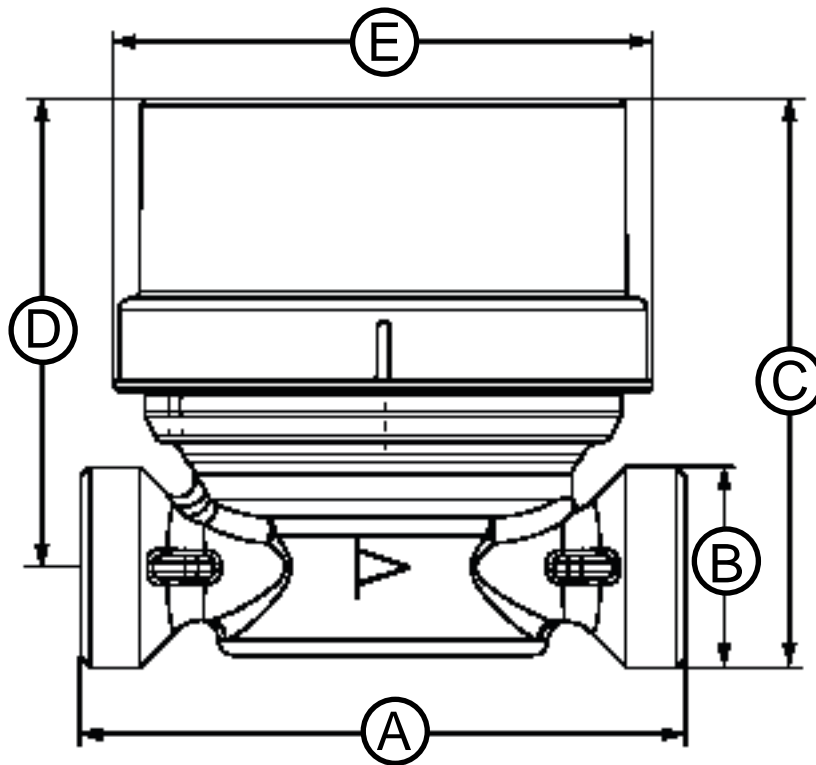
Displays in normal operation

Device statuses and consumption values are shown on the LC display in a display loop.



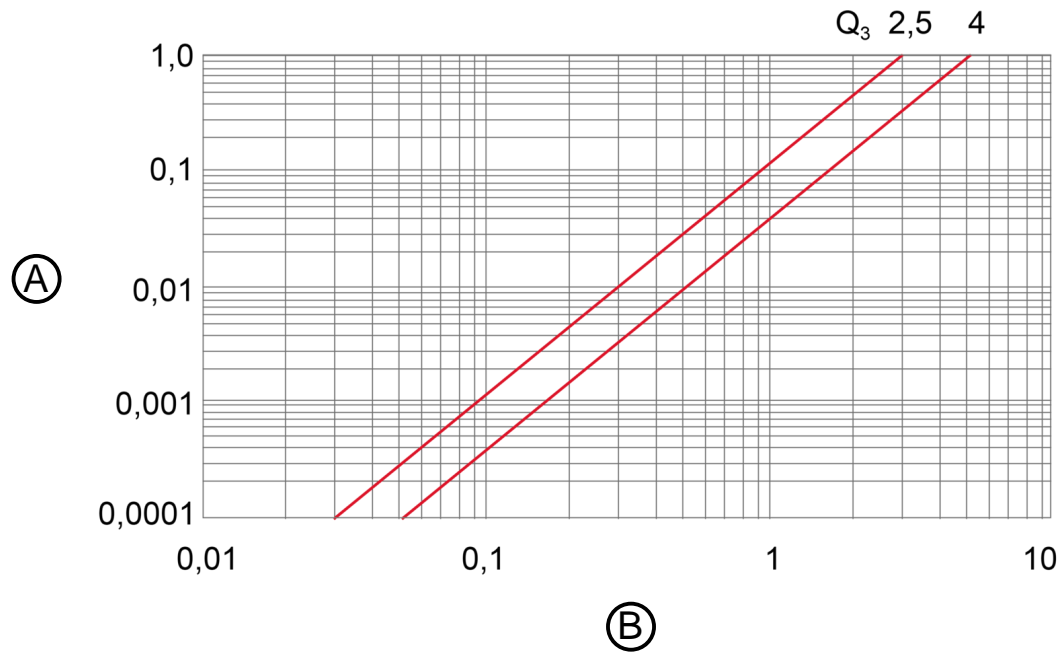
- (A) Error code (2 sec)
- (B) Error date (2 sec)
- (C) cum. volume (5 sec)
- (D) Segment test: Display on/off (0,5 sec)
- (E) last due date (5 sec)
- (F) Consumption until last due date (5 sec)
- (G) Checksum (2 sec)
- (H) Radio mode (2 sec)
- (I) displayed only in the event of an error
- (J) can be shown and hidden via parameterisation software

Dimensional drawings



| | 2.5 m ³ /h | 2.5 m ³ /h | 4.0 m ³ /h |
|---|-----------------------|-----------------------|-----------------------|
| A | 80 mm | 110 mm | 130 mm |
| B | G 3/4 B | G 3/4 B | G 1 B |
| C | 75,1 mm | 75,1 mm | 78,4 mm |
| D | 61,9 mm | 61,9 mm | 61,9 mm |
| E | 71 mm | 71 mm | 71 mm |

Pressure loss curve



(A) Pressure loss in bar

(B) Flow rate in m³/h

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