



Q module M-Bus heat

The M-Bus module is used for the communication of a heat meter or a calculator unit with an M-Bus central unit for the transmission of the measured values.

Functions

The M-Bus add-on module MHM5 can be fitted to heat meters of the Q heat 5 series and calculator units of the Q heat splitt series (R20/R21/R28).

The measured values are periodically read out and stored by the module in a time interval of 10 minutes.*)

The module has no effect on consumption recording and can therefore be retrofitted at any time without violating the security mark.

Addressing

The M-Bus module is normally addressed via the secondary address. If necessary, the primary address of the add-on module can be changed via the M-Bus interface.

Device combination

One M-Bus add-on module is required per heat meter or calculator unit.

M-Bus data points

The following data is read from the M-Bus module when requested by the M-Bus central unit:

Short data telegram

Block	M-Bus data points
1	Energy Volume
3	Time Operating hours Error date Fab. number M-Bus module AlbatrosID M-Bus module ASN Customer location Error code M-Bus module
6	Due date value Due date

Extended data telegram

Block	M-Bus data points
1	Energy Volume
3	Time Operating hours Error date Fab. number M-Bus module AlbatrosID M-Bus module ASN Customer location Error code M-Bus module
4	Volume flow Supply flow temperature Return flow temperature Temperature difference Power
6	Due date value Due date
8	13 monthly values (oldest value first)

*) Note: Since the data is only transferred from the heat meter every 10 minutes, shorter readout intervals are not useful. This can also lead to a shortening of the service life.

Type overview

Options	Article number
M-Bus (Short data telegram)	MHM5 00A2 0000 00000
M-Bus (Extended data telegram)	MHM5 00A2 0000 02000


Order

The complete article number must be given for the order.

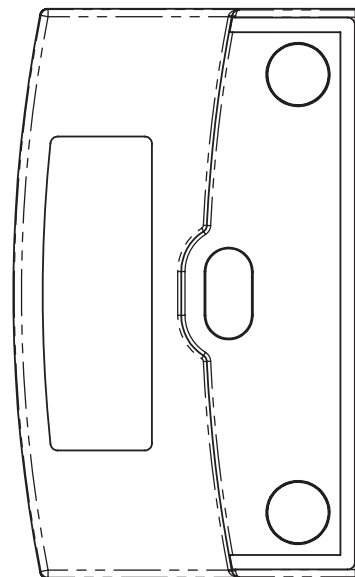
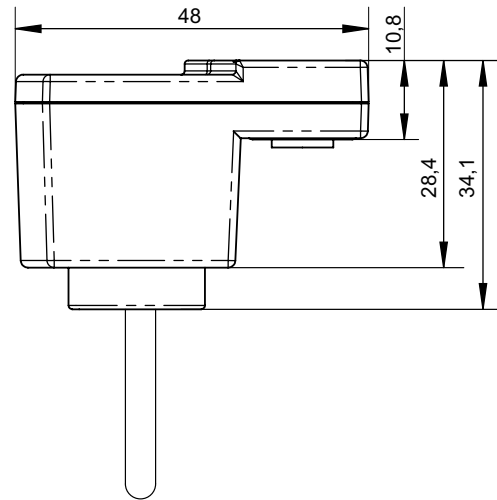
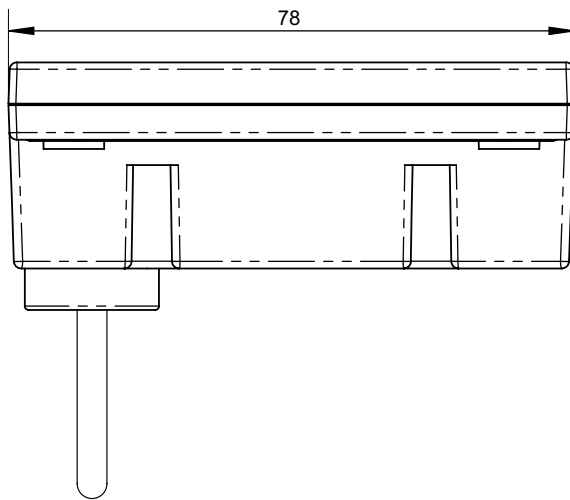
Power supply

The M-Bus module MHM5 is equipped with a battery in addition to the possible power supply via the M-Bus connection. This battery takes over the supply for the add-on module processor when there is no M-Bus voltage applied (permanent or briefly).

Technical data

Standards	
 QUNDIS GmbH hereby declares that the M-Bus module complies with Directives 2014/30/EU and 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.qundis.com	
RoHS compliant	EN 50581, EN IEC 63000
Ambient environment	
Protection type	IP65 according to EN 60529
Protection class	III according to EN 61140
Ambient conditions	Transport: -25 °C to +70 °C, < 95 % relative humidity (without condensation) Storage: -5 °C to +45 °C, < 95 % relative humidity (without condensation) Operation: +5 °C to +55 °C, < 95 % relative humidity (without condensation)
Electromagnetic compatibility	
Interference immunity and emission	EN 55024, EN 55022
Safety of IT equipment	EN 62368-1
Supply	
Voltage	Remote supply from the M-Bus system
Additional internal battery	
Battery type	Lithium metal
Operating voltage	DC 3 V
M-Bus connection	
M-Bus slave interface	According to EN 1434-3, EN 13757-2 and EN 13757-3
Quiescent current	≤ 1,5 mA
Standard load	1UL (Unit Load)
Addressing	Primary or secondary
Baud rate	300, 2400 baud
Polarity	Any
Galvanic isolation	Via module interface with heat meter or calculator unit
Connection cable length	2,95 m
Material	
Dimensions (WxHxD)	78 x 34 x 48 mm
Unit weight	185g
Enclosure material	Polycarbonate (PC)
Enclosure colours	white (satin, RAL9016)

Dimensional drawing



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The information provided in this data sheet contains only general descriptions and performance characteristics which, in actual application scenarios, may not always apply exactly as described and can change due to the further development of the products. The desired performance characteristics are binding only when expressly agreed upon at the time a contract is concluded.

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4