Data sheet

DST5-00MO-GB0-QMH55-A / 18.01.2023 /

Qmodule5.5heat

Add-on radio module

Add-on radio module for retrofi tting compact heat meters of the Qheat5 series as well as calculator units of the R 20 / 21 series for use in the Qwalk-by and Q AMR systems.
The add-on module takes over the data from heat meters and calculator units and transmits these to a readout system. The add-on module is equipped with an optical interface for parameter setting.

Application

The add-on radio modules Qmodule5.5heat are part of the Q AMR and Qwalk-by systems. They are used when heat meters of the Qheat5 series and calculator units of the R 20 / 21 series are available and their data are to be recorded within one of these systems.

Features

- transmission of the consumption data and due date values by radio
  - heat measurement data from the heat meter or calculator unit
  - cooling energy metering in the case of combined heat and cold metering
- optionally available with AES-128 encrypted data transmission according to OMS-Encryption Mode 5
- readout of the heat meters takes place via an optical interface
- add-on radio module does not have its own display

In Q AMR (C-mode) the radio module Qmodule5.5heat transmits OMS® radio telegrams (OMS® - Open Metering System) parallel to the walk-by telegrams. The radio telegrams meet the Open Metering System Specification and can thus be received by all OMS®-compatible devices.

S-Mode

- radio system – parallel transmission of Qwalk-by and Q AMR data telegrams
- increased radio performance
- transmission delay (offset)
  time delay for sending telegrams after the due date or at the beginning of the month 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).
- switching from S-Mode to C-Mode possible in both directions

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

C-Mode

- radio system – parallel transmission of Qwalk-by and OMS-compliant data telegrams
- increased radio capacity

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

Type overview

System	Article number
S-Mode (Q AMR, Qwalk-by)	RHM5 00AN 0000 Zxxx x
C-Mode (Q AMR, Qwalk-by)	RHM5 00AT 0000 Zxxx x

Delivery

On delivery, the default setting for the Qmodule5.5heat heat is:

	C-Mode	S-Mode
Due date	31.12.	31.12.
Type of readout	365 days	annually 48 days after due date
Transmission delay	none	0 days
Transmission period	8 am ... 6 pm, daily	8 am ... 6 pm, daily
Transmission-free days	none	Sunday

Device combination

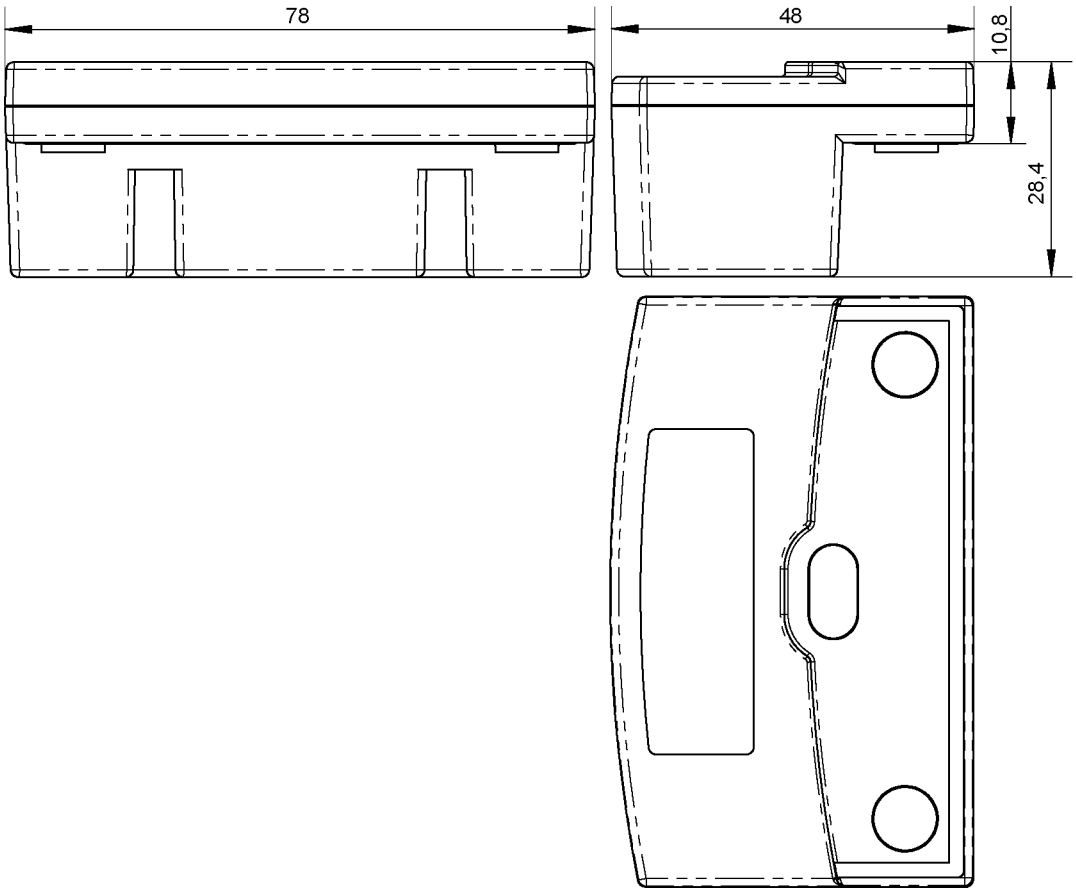
One Qmodule5.5heat per heat meter or heat/cold meter is required.

Technical data

Rohs compliant	EN 50581
Environment	
Protection rating	IP65 according to EN 60529
Protection class	III according to EN 61140
Transport	-25 °C ... 70 °C, < 95 % r.h. (without condensation) according to EN 60721-3-2
Storage	-5 °C ... 45 °C, < 95 % r.h. (without condensation) according to EN 60721-3-1
Use	5 °C ... 55 °C, < 95 % r.h. (without condensation) according to EN 60721-3-3
Radio	
Radio mode	S-Mode (Q AMR, Qwalk-by) C-Mode (Q AMR, Qwalk-by)
Radio frequency	S-Mode (868.3 ±0.3) MHz C-Mode (868.95 ±0.25) MHz
Transmission power	S-Mode (max. 14 dBm / typ. 11 dBm) C-Mode (max. 14 dBm / typ. 11 dBm)
Electromagnetic compatibility	
Interference resistance	EN 301489-1, EN 301489-3
Emitted interference	EN 301489-1, EN 301489-3, EN 55032
Security	EN 60950, EN 62368-1
Power supply	
Battery type	Lithium metal
Operating voltage	DC 3 V
Battery service life[1)]	10 years operation + 1 year reserve + 6 months storage

[1)] The battery life of the compact heat meter sets (Qheat5 with factory pre-assembled Qmodule5.5heat) is 6 years.

Dimensional drawings



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