

Data sheet

M-Bus Module

for MULTICAL® 62/602
with Medium Data Package

- Supplied via M-Bus Master
- Two pulse inputs
- 300/2400/9600 baud
- Programming of primary address, M-Bus ID number, date/time and pulse inputs via the M-Bus Network
- Collision detection
- Supports primary/secondary/enhanced secondary addressing and wild card search
- Fulfils EN 13757



Application

Kamstrup has developed a M-Bus module for MULTICAL® 62/602.

The module is mounted in the meter's module area and is used for remote reading and programming of MULTICAL® 602.

The module is galvanically separated from the meter and is supplied via the M-Bus master. Thus, the supply of the meter is not burdened by the module.

The module is fitted with two pulse inputs for reading other meters, e.g. water or electricity meters.

By means of the M-Bus module primary address, M-Bus ID number, date/time and pulse inputs (In-A and In-B) can be programmed via the M-Bus network.

The primary and secondary M-Bus addresses of the module are displayed in the meter.

Address fields

Primary (000-250)

When supplied from Kamstrup, M-Bus module will automatically use the 2-3 last digits of the meters' customer number as primary address. Otherwise there is no bond between customer number and M-Bus address. MULTICAL® 62/602 has separate registers for the primary M-Bus Addresses of the module.

Secondary (00000000-99999999)

Creating the secondary address the last eight digits of the customer number are used as M-Bus ID number. Furthermore, eight additional digits from the module's software, incl. Kamstrup's manufacturer's ID, can be added, thus extending the secondary address to 16 digits.

Enhanced secondary (00000000-99999999)

The meter's serial number is used for enhanced secondary addressing. This number is unique of each meter and cannot be changed.

Wild card search

Some or all digits of the M-Bus module's secondary or enhanced secondary addresses can be replaced by wild cards.

The M-Bus module will not compare the wild cards to the corresponding digits of its own secondary or enhanced secondary addresses, and it is possible to communicate with the M-Bus module if the other digits fit.

Connections

Module

Pulse inputs

Terminal 65 Pulse input A/In-A (+)

Terminal 66 Pulse input A/In-A (-)

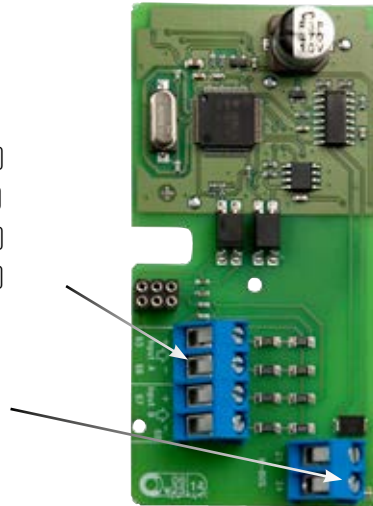
Terminal 67 Pulse input B/In-B (+)

Terminal 68 Pulse input B/In-B (-)

M-Bus-Anschlüsse

Terminal 24 M-Bus connection

Terminal 25 M-Bus connection



Technical data

Physical features

Power consumption	1 unit load (1.5 mA) per M-Bus Slave
Supply	From M-Bus Master
Rin / Cin	410 Ω/0.5 nF
Max. cable resistance	29 Ω/ 180 nF per pair
Temperature arear	0 - 60°C

Markings/approvals

EN 1434

EN 13757

CE approval

Technical data

Data telegram

M-Bus data	Actual data	Target data default settings: monthly values	Manufacturer specific data
Meter number	Serial No.	Energy E1	Info code
Manufacturer ID	Energy E1	Volume V1	Prog. No.
Versions ID	Volume V1	Max. power	Config. No. 1
Meter type	Hour counter	Max. flow	Config. No. 2
Reading counter	Error hour counter	VA/In-A	Meter No. 1
Configuration	T _{forward}	VB/In-B	Meter No. 2
	T _{return}	Cooling Energy E3	Meter type + revision
	T _{diff.}	Target date	Module type + revision
	Actual power		
	Max. power		
	Actual flow		
	Max. flow		
	In-A		
	In-B		
	Cooling Energy E3		
	Date/Time		

Ordering

Description

M-Bus module for MULTICAL® 61/601/602/801
 M-Bus Master MultiPort 250D
 M-Bus Master MultiPort 250L

Type No.

670027000000
 MBM-M210000
 MBM-M200000

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