

Datagram Description

Wired M-Bus modules for
MULTICAL® 403



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1 Introduction

The M-Bus modules HC-003-20 and HC-003-21 for MULTICAL® 403 are configurable whereby they can be configured to send out different datagrams.

This datagram description describes the available datagrams.

A datagram is describing which registers a specific module is configured to send out. A datagram is sometimes also called a data package or a data telegram.

2 Available Datagrams

	XX	-	YY	-	ZZZ
Module Type					
M-Bus Module + 2 Pulse Inputs	20				
M-Bus Module + 2 Pulse Outputs	21				
System Configuration					
Standard			00		
Datagram					
MC 403 Standard Profile Yearly Target Data					101
MC 403 Standard Profile Monthly Target Data					102
MC 403 Tariff Profile Yearly Target Data					103
MC 403 Tariff Profile Monthly Target Data					104
MC 403 DACH Profile Yearly Target Data					105
MC 403 DACH Profile Monthly Target Data					106
MC 403 Control Profile					107
MC 403 CP Profile Yearly Target Data					108
...					...
MC 402/602 compatible data (402020/670020) Yearly Target Data					998
MC III compatible data (6604/660S) Yearly Target Data					999

Note:

Not all registers are available in all meters. Eg. will cooling register E3 only be available in a meter configured as a cooling or combined heat/cooling. It will not be available in a heat meter.

For reading out Target registers, the wanted registers must be defined in the RR-configuration (logger content).

Datagram Description M-Bus modules for MULTICAL® 403

2.1 Standard Profile Yearly Target Data (ZZZ 101)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 101			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Energy E8 (T1*m3)	0	INT4	Standard	X	X	X	
Energy E9 (T1*m3)	0	INT4	Standard	X	X	X	
Volume V1	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Hour counter	0	INT4	Standard	X	X	X	X
Error hour counter	0	INT4	Error	X	X	X	X
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this month	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Energy E8, Target	1	INT4	Standard	X	X	X	
Energy E9, Target	1	INT4	Standard	X	X	X	
Volume V1, Target	1	INT4	Standard	X	X	X	X
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Max. power this year, Target	1	INT4	Standard	X	X	X	
Max flow this year, Target	1	INT4	Standard	X	X	X	X
Target date	1	INT2	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

2.2 Standard Profile Monthly Target Data (ZZZ 102)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 102			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Energy E8 (T1*m3)	0	INT4	Standard	X	X	X	
Energy E9 (T2*m3)	0	INT4	Standard	X	X	X	
Volume V1	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Hour counter	0	INT4	Standard	X	X	X	X
Error hour counter	0	INT4	Error	X	X	X	X
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this month	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Energy E8, Target	1	INT4	Standard	X	X	X	
Energy E9, Target	1	INT4	Standard	X	X	X	
Volume V1, Target	1	INT4	Standard	X	X	X	X
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Max. power this month, Target	1	INT4	Standard	X	X	X	
Max flow this month, Target	1	INT4	Standard	X	X	X	X
Target date	1	INT2	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

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2.3 Tariff Profile Yearly Target Data (ZZZ 103)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 103			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Volume V1	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Tariff 2	0	INT4	Standard	X	X	X	
Tariff 3	0	INT4	Standard	X	X	X	
Tariff 4	0	INT4	Standard	X	X	X	
Hour counter	0	INT4	Standard	X	X	X	X
Error Hour Counter	0	INT4	Error	X	X	X	X
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this month	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Volume V1, Target	1	INT4	Standard	X	X	X	X
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Tariff 2, Target	1	INT4	Standard	X	X	X	
Tariff 3, Target	1	INT4	Standard	X	X	X	
Tariff 4, Target	1	INT4	Standard	X	X	X	
Max. power this year, Target	1	INT4	Standard	X	X	X	
Max flow this year, Target	1	INT4	Standard	X	X	X	X
Target date	1	INT2	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

2.4 Tariff Profile Monthly Target Data (ZZZ 104)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 104			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Volume V1	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Tariff 2	0	INT4	Standard	X	X	X	
Tariff 3	0	INT4	Standard	X	X	X	
Tariff 4	0	INT4	Standard	X	X	X	
Hour counter	0	INT4	Standard	X	X	X	X
Error Hour Counter	0	INT4	Error	X	X	X	X
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this month	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Volume V1, Target	1	INT4	Standard	X	X	X	X
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Tariff 2, Target	1	INT4	Standard	X	X	X	
Tariff 3, Target	1	INT4	Standard	X	X	X	
Tariff 4, Target	1	INT4	Standard	X	X	X	
Max. power this month, Target	1	INT4	Standard	X	X	X	
Max flow this month, Target	1	INT4	Standard	X	X	X	X
Target date	1	INT2	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

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2.5 DACH Profile Yearly Target Data (ZZZ 105)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 105			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Heat with discount A1	0	INT4	Standard	X	X	X	
Heat with surcharge A2	0	INT4	Standard	X	X	X	
Volume V1	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Tariff 2	0	INT4	Standard	X	X	X	
Tariff 3	0	INT4	Standard	X	X	X	
Tariff 4	0	INT4	Standard	X	X	X	
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Temp. 5 Ref. Outlet	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this month	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Heat with discount A1, Target	0	INT4	Standard	X	X	X	
Heat with surcharge A2, Target	0	INT4	Standard	X	X	X	
Tariff 2, Target	1	INT4	Standard	X	X	X	
Tariff 3, Target	1	INT4	Standard	X	X	X	
Tariff 4, Target	1	INT4	Standard	X	X	X	
Max. power this year, Target	1	INT4	Standard	X	X	X	
Target date	1	INT2	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

2.6 DACH Profile Monthly Target Data (ZZZ 106)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 106			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Heat with discount A1	0	INT4	Standard	X	X	X	
Heat with surcharge A2	0	INT4	Standard	X	X	X	
Volume V1	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Tariff 2	0	INT4	Standard	X	X	X	
Tariff 3	0	INT4	Standard	X	X	X	
Tariff 4	0	INT4	Standard	X	X	X	
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Temp. 5 Ref. Outlet	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this month	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Heat with discount A1, Target	0	INT4	Standard	X	X	X	
Heat with surcharge A2, Target	0	INT4	Standard	X	X	X	
Tariff 2, Target	1	INT4	Standard	X	X	X	
Tariff 3, Target	1	INT4	Standard	X	X	X	
Tariff 4, Target	1	INT4	Standard	X	X	X	
Max. power this month, Target	1	INT4	Standard	X	X	X	
Target date	1	INT2	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

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2.7 Control Profile (ZZZ 107)

MULTICAL 403	XX: 20, 21	YY: 0	ZZZ: 107				
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Volume V1	0	INT4	Standard	X	X	X	X
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	X
Info	0	INT4	Standard	X	X	X	X
Meter type	0	INT2	Standard	X	X	X	X
Meter serial number	0	BCD	Standard	X	X	X	X
Module configuration	0	INT4	Standard	X	X	X	X
Module SW version	0	INT4	Standard	X	X	X	X

2.8 CP Profile Yearly Target Data (ZZZ 108)

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 108			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	INT4	Standard	X		X	
Cooling energy E3	0	INT4	Standard		X		
Cooling energy E3	0	INT4	Comb. H/C			X	
Volume V1	0	INT4	Standard	X	X	X	
Pulse input A	0	INT4	Standard	X	X	X	
Pulse input B	0	INT4	Standard	X	X	X	
Hour counter	0	INT4	Standard	X	X	X	
Temp. 1 Inlet	0	INT2	Standard	X	X	X	
Temp. 2 Outlet	0	INT2	Standard	X	X	X	
Differential temp.	0	INT2	Standard	X	X	X	
Actual power	0	INT4	Standard	X	X	X	
Max. power this month	0	INT4	Standard	X	X	X	
Actual flow	0	INT4	Standard	X	X	X	
Max. flow this month	0	INT4	Standard	X	X	X	
VB Power	0	INT4	Standard	X	X	X	
Coefficient of performance CP	0	INT4	Standard	X	X	X	
Info	0	INT4	Standard	X	X	X	
Heat energy E1, Target	1	INT4	Standard	X		X	
Cooling energy E3, Target	1	INT4	Standard		X		
Cooling energy E3, Target	1	INT4	Comb. H/C			X	
Volume V1, Target	1	INT4	Standard	X	X	X	
Pulse input A, Target	1	INT4	Standard	X	X	X	
Pulse input B, Target	1	INT4	Standard	X	X	X	
Max. power this year, Target	1	INT4	Standard	X	X	X	
Max flow this year, Target	1	INT4	Standard	X	X	X	
Target date	1	INT2	Standard	X	X	X	
CP Year	0	INT2	Standard	X	X	X	
Meter type	0	INT2	Standard	X	X	X	
Meter serial number	0	BCD	Standard	X	X	X	
Module configuration	0	INT4	Standard	X	X	X	
Module SW version	0	INT4	Standard	X	X	X	

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2.9 MULTICAL® 402/602 Compatible Data Profile Yearly Target Data (ZZZ 998)

Similar to M-Bus modules 402020/670020/6707

MULTICAL 402	XX: 20, 21		YY: 0	ZZZ: 998			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Meter serial number	0	BCD8	Standard	X	X	X	X
Heat energy E1	0	INT4	Standard	X	X	X	X
Volume V1	0	INT4	Standard	X	X	X	X
Hour counter	0	INT4	Standard	X	X	X	X
Temp. Flow	0	INT2	Standard	X	X	X	X
Temp. return	0	INT2	Standard	X	X	X	X
Differential temp.	0	INT2	Standard	X	X	X	X
Actual power	0	INT4	Standard	X	X	X	X
Max. power this year	0	INT4	Standard	X	X	X	X
Actual flow	0	INT4	Standard	X	X	X	X
Max. flow this year	0	INT4	Standard	X	X	X	X
Tariff 2	0	INT4	Standard	X	X	X	X
Tariff 3	0	INT4	Standard	X	X	X	X
Pulse input A	0	INT4	Standard	X	X	X	X
Pulse input B	0	INT4	Standard	X	X	X	X
Cooling energy E3	0	INT4	MC402	X	X	X	X
Date / time	0	INT4	Standard	X	X	X	X
Heat energy E1, Target	1	INT4	Standard	X	X	X	X
Volume V1, Target	1	INT4	Standard	X	X	X	X
Max. power this year, Target	1	INT4	Standard	X	X	X	X
Max flow this year, Target	1	INT4	Standard	X	X	X	X
Tariff 2, Target	1	INT4	Standard	X	X	X	X
Tariff 3, Target	1	INT4	Standard	X	X	X	X
Pulse input A, Target	1	INT4	Standard	X	X	X	X
Pulse input B, Target	1	INT4	Standard	X	X	X	X
Cooling E3, Target	1	INT4	MC402	X	X	X	X
Target date	1	INT2	Standard	X	X	X	X
Info			MC402	X	X	X	X
Energy E8 (m3*tf)			MC402	X	X	X	X
Energy E9(m3*tr)			MC402	X	X	X	X
Tariff limit 2			MC402	X	X	X	X
Tariff limit 3			MC402	X	X	X	X
Program number			MC402	X	X	X	X
Config number 1			MC402	X	X	X	X
Config number 2			MC402	X	X	X	X
Meter number 1			MC402	X	X	X	X
Meter number 2			MC402	X	X	X	X
Meter type			MC402	X	X	X	X
Meter SW Rev.			MC402	X	X	X	X
Module type			MC402	X	X	X	X
Module SW Rev.			MC402	X	X	X	X

2.10 MULTICAL® III Compatible Data Profile Yearly Target Data (ZZZ 999)

Similar to M-Bus modules 6604/6607/660V/660S

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 999			
Register	Storage No.	Data	Coding	Heat	Cooling	Heat/ Cooling	Volume
Heat energy E1	0	BCD8	Standard	X			
Cooling energy E3	0	BCD8	Standard		X		
Volume V1	0	BCD8	Standard	X	X		
Hour counter	0	BCD8	Standard	X	X		
Temp. 1 Inlet	0	BCD8	Standard	X	X		
Temp. 2 Outlet	0	BCD8	Standard	X	X		
Differential temp.	0	BCD8	Standard	X	X		
Actual power	0	BCD8	Standard	X	X		
Actual flow	0	BCD8	Standard	X	X		
Heat energy E1, Target	1	BCD8	Standard	X			
Cooling energy E3, Target	1	BCD8	Standard		X		
Volume V1, Target	1	BCD8	Standard	X	X		
Target date	1	INT2	Standard	X	X		
Fixed data block		binary	None				

3 Available data from MULTICAL® datalogger

Both the meters logger and the M-Bus modules datagrams are configurable.
Only data defined in the meters datalogger profile can be read out via M-Bus.

The Logger is defined in the meter with the RR code.

MULTICAL 403	XX: 20, 21		YY: 0	ZZZ: 101-108			
Register	RR: 10	RR:	RR:	RR:	RR:	RR:	RR:
Data and time for logger	X						
Heat energy E1	X						
Cooling energy E3	X						
Energy E8 (T1*m3)	X						
Energy E9 (T2*m3)	X						
Heat with discount A1							
Heat with surcharge A2							
Tariff 2	X						
Tariff 3	X						
Tariff 4	X						
Volume V1	X						
Pulse input A	X						
Pulse input B	X						
Hour counter	X						
Error hour counter	X						
Info code	X						
Max. flow this period	X						
Date max. flow this period	X						
Min. flow this period	X						
Date min. flow this period	X						
Max. power this period	X						
Date max. power this period	X						
Min. power this period	X						
Date min. power this period	X						
CP Month	X						
CP Year	X						