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## INTRODUCTION

### Purpose

Due to the large number of suppliers and the wide range of meters currently found on the market, COACH is unable to support all types of meters. For this reason, this document lists those meters which CentraLine has qualified to support. It is the responsibility of users employing devices not listed here to verify their compatibility.

### Addressing of M-Bus Meter Values

In the case of most M-Bus meters, meter values and M-Bus addressing parameters are assigned as follows:

Storage number 0:	actual values
Storage number 1:	values at previous reference day
Tariff 0:	heating energy (heat meters)
Tariff 1:	cooling energy (heat meters with this option)
Sub-unit 0:	primary meter values as heating and cooling energy and volume
Sub-unit 1:	values of AUX meter input 1 (if applicable)
Sub-unit 2:	values of AUX meter input 2 (if applicable)

This addressing scheme is used as default in COACH.

However, some meters are using different assignment schemes. These are stated in the **NOTES** appearing below the tables of each manufacturer.

In COACH, the above address attributes cannot be altered; thus, meter values with deviating address schemes cannot be read.

### Legend for Table Entries

X supported

-- not supported

## SUPPORTED M-BUS METERS QUALIFIED WITH COACH 2.04.00 AND PANTHER Engelmann Sensor

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
WaterStar	1)	--	--	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--
SensoStar2 2IE	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
SensoStar2C	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

#### NOTE:

1) Volume at Reference Day is available at storage number 1.

## Honeywell

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
EW7730	1)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
EW7731	1)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
EW545	1)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
EW447, EW448, EW449	1)	A	A	--	X	X	X	X	X	X	X	X	--	--	X	X	--	--	--
EW450, EW451, EW452	1)	A	A	--	X	X	X	X	X	X	X	X	--	--	X	X	--	--	--
EW1300BM	--	A	A	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--
EW1301BM	--	A	A	--	--	--	X		X	--	--	--	--	--	X	--	--	--	--
EW742/EW743	--	A	A	--	--	--	X		X	--	--	--	--	--	X	--	--	--	--
EW1700B	--	A	A	--	--	--	X		X	--	--	--	--	--	X	--	--	--	--
EW1701B	--	A	A	--	--	--	X		X	--	--	--	--	--	X	--	--	--	--

**NOTE:**

- 1) Meter can be ordered as heat or cool or heat & cool metering device.
  - Heat meter: heating energy can be read from tariff 0 (default).
  - Cool meter: cooling energy can be read from tariff 0. *COACH does not support cooling only!*
  - Heat/Cool meter: heating energy can be read from tariff 0, cooling energy can be read from tariff 1 (default).
  - Cool/Heat meter: heating energy can be read from tariff 1, cooling energy can be read from tariff 0. In COACH, the assignment of heating/cooling is reversed!

## Hydrometer (Diehl Metering)

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs			Reference Day			
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
SHARKY 775	1)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
SHARKY 775	1)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
SCYLAR INT8	1)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--
BR447-452	1)	A	A	--	X	X	X	X	X	X	X	X	--	--	X	X	--	--	--
BR447-452	1)	A	A	--	X	X	X	X	X	X	X	X	--	--	X	X	--	--	--
Corona E	--	A	A	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--
Corona E	--	A	A	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--
Corona E	--	A	A	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--
Wesan WP E	--	A	A	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--
Wesan WP E	--	A	A	--	--	--	X	--	X	--	--	--	--	--	X	--	--	--	--

**NOTE:**

- 1) Meter can be ordered as heat or cool or heat & cool metering device.  
 Heat meter: heating energy can be read from tariff 0 (default).  
 Cool meter: cooling energy can be read from tariff 0. *COACH does not support cooling only!*  
 Heat/Cool meter: heating energy can be read from tariff 0, cooling energy can be read from tariff 1 (default).  
 Cool/Heat meter: heating energy can be read from tariff 1, cooling energy can be read from tariff 0. In COACH, the assignment of heating/cooling is reversed!

**Itron, Almess (Actaris, Schlumberger)**

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
UltraMaXX	1)	X	X	X	X	--	X	X	X	X	X	X	X	X	--	--	--	--	--
INTEGRAL-MK MaXX / CF-Compact	--	X	X	--	X	--	X	--	X	X	X	X	--	--	--	--	--	--	--
CF-ECHO II / CF-51 / CF-55 / CF-800	--	X	X	X	X	--	X	X	X	X	X	X	--	--	--	--	--	--	--
BM +m	--	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
M-Bus Cyble ≥ V2.0	--	--	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

**NOTE:**

1) Recommended poll rate is max. once per hour (to conserve battery life).

## Kamstrup

Meter Device Type	M-Bus Module Identification	Note	Baud Rates			Values					Temperatures			Auxiliary Inputs		Reference Day				
			A = Auto detection			Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	CoolingEnergy	Aux1	Aux2
	Type/ PCB / Software No		300	2400	9600															
MULTICAL 61/62/601/602/801 with MULTICAL III compatible data package	67 00 29 / 5550-1125 / 5098-782	1), 2), 3)	A	A	A	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--
MULTICAL 61/601/602/801 <b>base</b> module	67 00 20 / 5550-831 / 5098-311	1), 3), 5)	A	A	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MULTICAL 61/62/601/602 <b>top</b> module	67 07 00 / 5550-838 / 5098-346	1), 3), 5)	A	A	A	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--
MULTICAL 402 with MULTICAL III compatible data package	402 0 29 / 5550-1140 / 5098-899	1), 2), 4)	A	A	A	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--
MULTICAL 402	402 0 20 / 5550-1030 / 5098-692	1), 4), 5)	A	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**NOTE:**

- 1) For required PCB respectively software revision, please refer to Kamstrup documentation. PCB and software number excluding prefix and assigned revision, e.g., 1125 Rev.B3 can be found on labels on M-Bus module.
- 2) Depending on factory configuration either heat or cooling energy can be read.
- 3) Shortest recommended poll rate is 60 seconds, shortest possible poll rate is 15 seconds.
- 4) Shortest recommended poll rate is 60 seconds, shortest possible poll rate is 28 seconds.
- 5) For actual and historic values: Cooling-Energy: sub-unit=3 is used. It is not readable by COACH! *COACH does not support cooling only!*

## Landis+Gyr

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
2WR6	--	X	X		X		X	X	X	X	X	X			X	X			
M-Bus-Modul Generation 4 UH50	1), 2)	A	A	A	X	--	X	X	X	X	X	X	X	X	--	X	--	--	--
T230	--	A	A	--	X	--	X	X	X	X	X	X	--	--	--	--	--	--	--

**NOTE:**

- 1) Value update is in normal mode every 15 minutes (battery powered) or every 10 seconds (main powered). A "Fast Mode" (value update every 4 seconds) can be configured by manufacturer tool. In this mode, only energy, volume, power, flow, FlowTemp, and ReturnTemp are transmitted.
- 2) Auxiliary inputs are available only if an M-Bus module with pulse inputs (MI-Modul) is mounted.

## NZR (Nordwestdeutsche Zählerrevision)

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
DHZ 5/63	1)	X	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--

**NOTE:**

- 1) Meters with firmware 1.10 (Generation = 00, production until 17.08.2007) deliver energy and reset table energy with the same coding (cannot be differentiated by controller). Meter firmware versions > 1.10 will store this differently and controller can read it.

## Relay

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
PadPuls M1	1)	A	A	A	X	--	X	--	--	--	--	--	--	--	--	--	--	--	--
PadPuls M1C	1)	A	A	A	X	--	X	--	--	--	--	--	--	--	--	--	--	--	--
PadPuls M2	1)	A	A	--	X	--	X	--	--	--	--	--	--	X	X	--	--	--	
PadPuls M2C	1)	A	A	--	X	--	X	--	--	--	--	--	--	X	X	--	--	--	
PadPuls M4	1)	A	A	--	X	--	X	--	--	--	--	--	--	X	X	--	--	--	
PadPuls M4L	1)	A	A	--	X	--	X	--	--	--	--	--	--	X	X	--	--	--	

**NOTE:**

1) Meter category has to be configured with MBCONF tool. Only one unit can be selected, either energy or volume.

## Sensus Metering

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
PCE	1),2)	--	--	--	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--
PolluTherm	1),2)	--	--	--	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--
PolluStat E	1),2)	--	--	--	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--
Embarcadero	1),2)	--	--	--	X	X	X	X	X	X	X	X	--	--	X	X	X	--	--

**NOTE:**

1) Cooling energy is stored in tariff 2. It is not readable by COACH!

2) COACH does not support cooling only!



## Sontex

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
Supercal 531	1)	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
Supercal 539	2)	X	X	-	X	X	X	X	X	X	X	-	X	X	-	-	-	-	-

**NOTE:**

- 1) Meter delivers up to 108 response blocks, so minimum poll rate might be restricted.
- 2) Availability of cooling energy and Auxiliary Inputs depends on meter variant.

## Wehrle

Meter Device Type	Note	Baud Rates A = Auto detection			Values					Temperatures			Auxiliary Inputs		Reference Day				
		300	2400	9600	Energy	Cooling Energy	Volume	Power	Flow	FlowTemp	ReturnTemp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
MBUS Modul Modularis	1)	X	X	-	-	-	X	-	-	-	-	-	-	-	X	-	-	-	-

**NOTE:**

- 1) Meter delivers volume at reference day with storage number 1.

## PREVIOUSLY QUALIFIED M-BUS METERS WITH CONTINUED SUPPORT

Manufacturer	Meter Device Type	Note	Baud Rates			Mode	Values					Temperatures			Auxiliary Inputs		Reference Day				
			300	2400	9600		Energy	Cooling Energy	Volume	Power	Flow	Flow Temp	Return Temp	DiffTemp	Aux1	Aux2	Date	Energy	Cooling Energy	Aux1	Aux2
ABB	SVM 840	--	X	X	--	1	X	--	X	X	X	X	X	X	--	--	--	--	--	--	--
ABB	RV F2	--	X	X	--	1	X	--	X	X	X	X	X	X	--	--	--	--	--	--	--
Actaris	CF50	--	--	--	--	--	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
Actaris	CF55	--	--	--	--	--	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
Berg	BLMi461	--	--	X	--	1	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--
DZG	Elektro Baureihe S30	--	X	X	X	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydrometer	BR 440	--	X	X	--	1	X	--	X	X	X	X	X	--	--	X	X	--	--	--	--
Hydro meter	Energy-Int 5 (Danfoss Infocal-5)	--	X	X	--	1	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
Hydrometer	BR 772 Sharky-Heat	1)	X	X	--	1	X	X	X	X	X	X	X	--	--	X	X	X	--	--	--
Hydrometer	BR 773 Sharky-Heat	--	X	X	--	1	X	X	X	--	X	X	X	--	X	X	--	--	--	--	--
Hydrometer	BR 773 Sharky-Heat, mode 2	--	X	X	--	2	X	X	X	X	X	X	X	X	X	--	X	X	--	--	--
Kamstrup	Multical 3	--	X	X	--	1	X	--	X	X	X	X	X	--	--	--	X	--	--	--	--
Kundo	G07	--	X	X	--	1	X	--	X	X	X	X	X	--	--	X	X	--	--	--	--
Landis & Staefa	Sonogyr WSD	2)	X	--	--	1	X	--	X	X	X	X	--	--	--	--	--	--	--	--	--
raab karcher	Sensonic	--	X	X	--	1	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
Relay	PadPuls M1C	3)	X	X	--	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3)	X	X	--	1	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
Relay	PadPuls M4L	3)	X	X	--	1	X	--	--	--	--	--	--	--	--	X	X	--	--	--	--
		3)	X	X	--	1	--	--	X	--	--	--	--	--	--	X	--	--	--	--	--
Schlumberger	CF50	4)	X	X	--	1	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
	reference day mode	4)	X	X	--	2	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--
Schlumberger	Integral-MK MaXX	--	X	X	--	1	X	--	X	--	X	X	X	--	--	--	--	--	--	--	--
Sensus Metering	PolluCom E	--	--	--	--	--	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
Siemens / Pollustat	2WR4	5)	X	X	--	1	X	--	X	X	X	X	X	--	--	--	X	--	--	--	--
	fast read mode	5)	X	X	--	2	X	--	X	X	X	X	--	--	--	--	--	--	--	--	--
Sontex	Supercal 539	--	X	X	--	1	X	--	X	X	X	X	--	--	--	--	--	--	--	--	--
Sontex	Supercal 539 Plus	--	X	X	--	1	X	--	X	X	X	X	--	X	X	--	--	--	X	X	--
Sontex	Supercal 539 Heating/Cooling	--	X	X	--	1	X	X	X	X	X	X	--	--	--	--	--	X	--	--	--
Sontex	Supercal 539 Heating/Cooling Plus	--	X	X	--	1	X	X	X	X	X	X	--	X	--	--	--	X	X	--	--
Spanner Pollux	PolluTherm	6)	X	X	--	1	X	--	X	X	X	X	X	--	--	--	--	--	--	--	--
techem	delta-tech Kompakt	--	X	X	--	1	X	--	X	--	X	X	X	--	--	--	X	--	--	--	--
techem	delta-tech Split	--	X	X	--	1	X	--	X	--	X	X	X	--	--	--	X	--	--	--	--
Viterra	Sensonic II / T25	7)	X	X	--	1	X	--	X	X	X	X	X	--	--	X	X	--	--	--	--
Wehrle		--	--	X	--	1	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
Zenner	multidata S1	8)	--	X	--	1	X	--	X	X	X	X	X	--	--	X	X	--	--	--	--

**NOTES:**

Note	Manufacturer	Owned by	Note
1)	Hydrometer	-	Tarif Energy1 can be used for cooling energy. The meter must be configured for cooling energy.
2)	Landis & Staefa	-	Sonogyr WSD supports only 300 Baud. Battery-driven meters are restricted to be read out once a day (on month basis: that means you can read out values about 30 times and then readout is disabled for 30 days). The readout lock is configurable with the Landis tool.
3)	Relay	-	PadPuls must be configured for either Energy or Volume.
4)	Schlumberger	by Actaris/Itron	The CF50 meter displays zero power (0 kWh) at low flows or low temperature differences (some threshold). Use mode 2 to read the reference day and energy value at reference day. Mode 2 can be chosen by parameter setting.
5)	Siemens 2WR4	-	In mode 1 value changes take place only every 15 min. Also a change to mode 2 takes place after 0 ... 15 min. Use mode 2 for a fast update (but temperature difference and energy at reference day are not available). The jumper beside M-Bus connector should not be set (for variable data format). Mode2 can be chosen by parameter setting.
6)	Spanner Pollux PolluTherm	Sensus Metering Systems	There is a limited read interval on meters running with battery: readout only 24 times per day (normal battery) / 500 times per day (strong battery)
7)	Sensonic II	-	There is a limited read interval on meters running with battery: 96 times per day including life check.
8)	Zenner	-	Storage number for reference day values is 8, not 1

**NOTES for PANTHER M-Bus controller**

Pollcycle	Shortest poll cycle is 4 sec. Depending on the M-Bus device, the reporting of value changes on the M-Bus may be delayed.
Value range	Low flow values (< 0.05 m³/h) are rounded to 0; this is because the lowest engineering unit in PANTHER is 0.1 m³/h

## UNSUPPORTED M-BUS METERS

Manufacturer	Device Type	Meter Category	Note
Pollustat	B501	heating	--
Schlumberger	Cyble M-Bus Zähler	heating	versions < V2.0 unsupported versions ≥ V2.0 supported see above
ABB	Stromzähler Deltameter	electric	--
ABB	WMZ F4	heating/cooling	--
NZR	DHZ	electric	--
IME	CONTO D4	electric	--
Finder	Serie 7E	electric	--
GLOCK Messtechnik	NOVA_80_20002	electric	--
GLOCK Messtechnik	NOVA_5_20002	electric	--
GLOCK Messtechnik	DHZ_20_15_200	electric	--

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