

2.6.6 M-Bus

field bus module for capturing consumption data



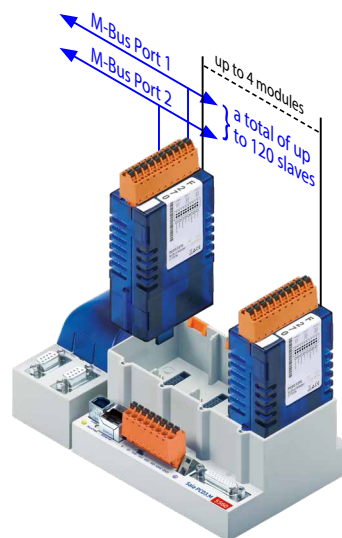
M-Bus master interface module

M-Bus (EN 1434-3) is an international standard for remote meter reading. The M-Bus connection is formed using the PCD2.F27x0 / PCD3.F27x communication modules in slots 0...1 on the PCD1.M2* and 0...3 on the PCD2.M5 and PCD3. This enables all volumes of water, heat or energy to be captured in an automation station. The measurement data is subsequently processed in an FBox library in the Saia PCD® FUPLA.

The interface modules are fitted with a power supply and two separate M-Bus interfaces. Depending on the design, the integrated power supply is sufficient for up to 120 M-Bus standard slave modules whereby it can be distributed as required across the two ports.

The PCD2.F2710...F2720 and PCD3.F271...F272 master modules require the Engiby M-Bus library.

FBoxes for SBC energy meters with M-Bus are supported by the Engiby library.



M-Bus via serial interface

In PCD controllers, M-Bus is connected with no slot for M-Bus master modules via an external signal converter. RS-232 or RS-485 interfaces are used depending on the converter.

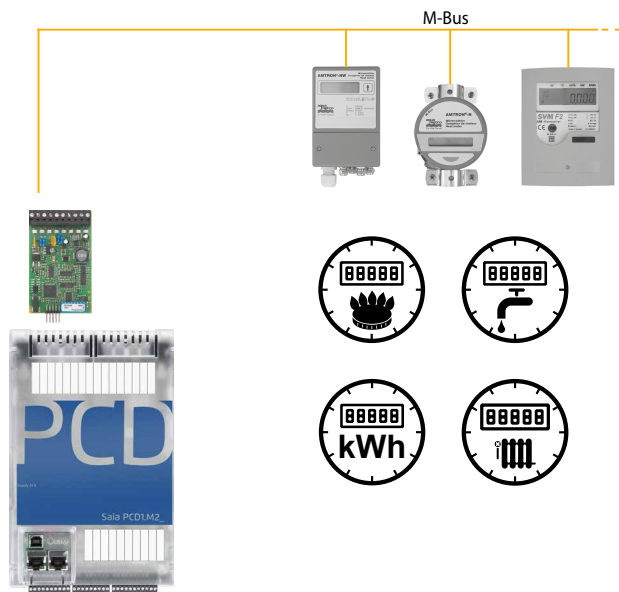
Driver settings

The respective PCD communication interface is specified in the M-Bus driver FBox in the Engiby library.

Note the converter interface parameters such as baud rate, timeout, etc.

Secondary addressing

Secondary addressing is supported from Library Version 2.7.200 or higher for SBC energy meters and generic FBoxes. Primary addressing must be used for the product-specific FBoxes.



Application example: PCD1.M2120 with M-Bus activation.
* PCD1.M2110R1 slot 0 only

PCD1/PCD2 ordering information

Type	Description	Weight
PCD2.F2700	M-Bus master interface for up to 240 slaves	60 g
PCD2.F2710	M-Bus master interface for up to 20 slaves	60 g
PCD2.F2720	M-Bus master interface for up to 60 slaves	60 g



PCD2.F27x0

PCD3 ordering information

Type	Description	Weight
PCD3.F270	M-Bus master interface for up to 240 slaves	80 g
PCD3.F271	M-Bus master interface for up to 20 slaves	80 g
PCD3.F272	M-Bus master interface for up to 60 slaves	80 g



PCD3.F27x

Driver licence free

- M-Bus Drivers
 - M-BUS Master
 - M-BUS Master Reset



Saia Energy Meters licence free

- M-Bus Electricity Saia PCD
 - Saia PCD ALE
 - Saia PCD ALE/AWD Extended
 - Saia PCD AWD



Engiby M-Bus Library, licence required

- M-Bus Electricity
 - M-Bus General
 - M-Bus Heating
 - M-Bus Water/Volume

1 SBC software

2 Communication & Interaction

3 SBC S-Web technology

4 Room automation