

SVM F22 M-Bus board (FCM2)

DATA SHEET

- 2-wire M-Bus
- M-Bus/RS232 (4-wire connection)
- Galvanically separated from the meter
- 300 or 2400 baud
- Easy to install



F22 M-Bus board (FCM2)

Calculator F22 can be equipped with an option board for M-Bus data output for extended functionality.

F22 is delivered with a built-in optical M-Bus output. With the option board FCM2 the F22 also offers an M-Bus output for connection to screw terminals. The option board is available in two versions, one for 2-wire connection to an M-Bus loop, and another version for 4-wire connection to M-Bus/RS232.

The option board acts as a signal converter and has no processor. It is therefore easy to install since it does not need to be installed in the meters EEPROM memory.

The primary and secondary communication address and the communication baud rate can be set in the meter with the service program FlexServ.

SVM F22 M-Bus board (FCM2)

DATA SHEET

Function

The option board FCM2 can be installed in any F22 calculator, battery supplied or mains supplied. For battery supplied calculators a maximum read-out frequency of once per day is recommended to avoid affecting the battery life.

The option board acts as a signal converter and has no CPU. The M-Bus parametrization is therefore done in the meter and not on the option board. The primary communication address can be set in the meter when in "service mode". The secondary communication address and the baud rate can be set using the service software "FlexServ". For further information, cf. the F22 users manual.

The option board FCM2 is available in two different versions:

- M-Bus, 2-wire connection to an M-Bus loop
- M-Bus/RS232 with 4-wire connection to e.g. a computer or modem etc.

The LED "LD1" on the board, cf. Fig. 1 below, illuminates when the M-Bus loop is powered and properly connected.

Installation

1. Make sure the white mark on the option board is facing the white mark on the connection board of the meter, cf. Fig. 1 below. The component side of the option board should face down towards the screw terminals.
2. Install the option board in slot "PL1". Ensure that all pins are properly connected to the option board.

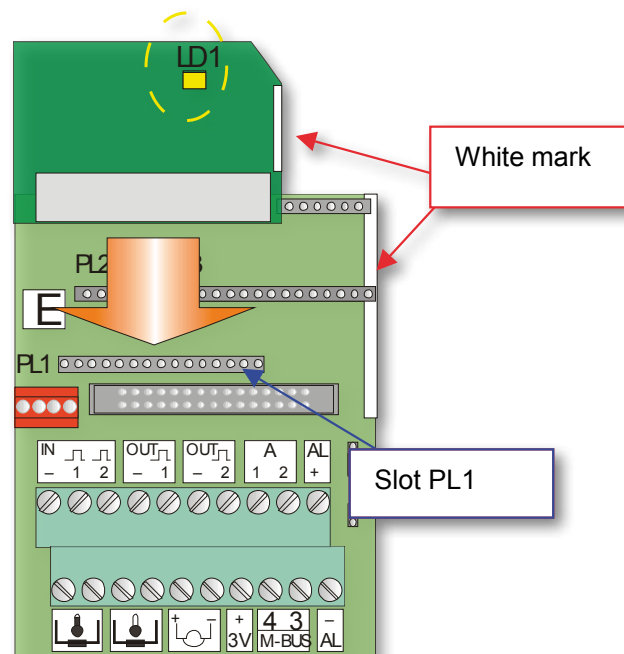


Fig. 1, Installation of option board FCM2 in calculator F22

SVM F22 M-Bus board (FCM2)

DATA SHEET

Connection

M-Bus, 2-wire connection (FCM2-21DM)

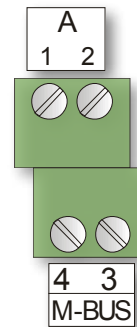
Connect the M-Bus loop to the terminals marked "M-Bus". Polarity is irrelevant.

M-Bus/RS232 (FCM2-21DR)

Connect the M-Bus/RS232 output according to Table 1 below.

Terminal	Function	9-Pole D-Sub
1	RXD ->	2
2	DTR <-	4
3	TXD <-	3
4	GND --	5

Table 1, Connecting the M-Bus/RS232 output



Ordering

FCM2-21DM	F22 M-Bus board for 2-wire connection
FCM2-21DR	F22 M-Bus board for RS232 connection