EXP FLEX 2M-V3

MODBUS Expansion Module

Features:

- **EXP FLEX 2M-V3 is an independent / expansion module used with RS485 Communication**
- **Any Flexys I/O card can be configured (one card per module)**
- **Up to 7 numbers of EXP FLEX 2M-V3 devices can be connected to a Master Device**
- **RS485 Slave IN & OUT separate terminals (For easy loop & wiring)**

Electrical Specification

Supply voltage	24V DC ±10%
Power consumption	2.5W
Reverse polarity protection	Yes
Isolation	No (Between power circuit and communication circuit)

Functional Specifications

Response time	100ms to 2 sec based on number of EXP FLEX 2M-V3 devices configured + I / O card type

DIP Switch Selection

Slave ID	DIP Switch			
	1	2	3	4
NA	X	OFF	OFF	OFF
1		OFF	OFF	ON
2		OFF	ON	OFF
3		OFF	ON	ON
4		ON	OFF	OFF
5		ON	OFF	ON
6		ON	ON	OFF
7		ON	ON	ON
Baud Rate				
19200	OFF	X	X	X
115200	ON	X	X	X

LED Display

LED Display	LED Color	Indication
Power LED (PWR)	Green	Always On when device is powered
Receive LED (Rx)	Green	Blinks when EXP FLEX 2M-V3 device receives RS485 command from master
Transmit LED (Tx)	Red	Blinks when EXP FLEX 2M-V3 device transmits RS485 response to master
Error LED (Err)	Red	On - When I / O card is not connected
		Flashing - 2 sec ON, 0.3 sec OFF - when I/O card is mismatched *1
		Flashing - 0.3 sec ON, 0.3 sec OFF - when No Master communication is received for 6 secs
		OFF - successful operation

*1 : When configured I/O card in SELPRO / FLEX2MCOM software is different from connected I / O card EXP FLEX 2M-V3

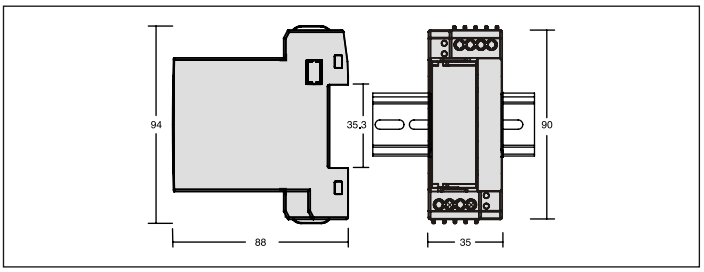
Communication

Communication Port	RS485 Slave
Communication Protocol	MODBUS RTU
Baud Rate	19200 and 115200 (user configurable) (Default + 19200)
Fixed Settings	Parity = None (N), Stop bits = 1, Data length = 8

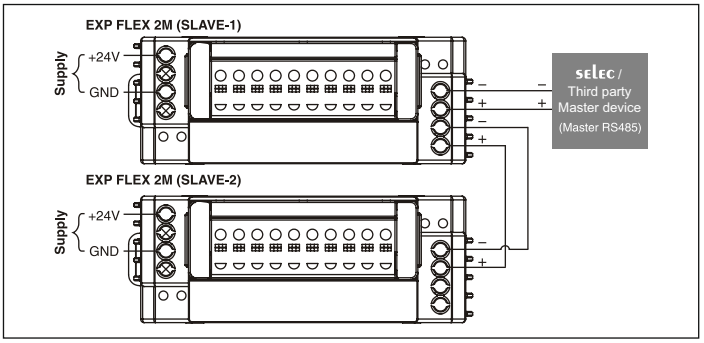
Environmental Specifications

Temperature	Operating : 0 to 50 °C Storage : -20 to 60 °C
Humidity (non-condensing)	10% to 95% RH

Dimensions (in mm)



Terminal Connection



Ordering Information

Product Code	Description	Certification
EXP FLEX 2M-V3	Expansion module	---