



Certifications : RoHS

## Features:

- EXP FLEX 2M is an Expansion Module used in conjunction with specific PLCs (With RS485 Master Communication)
- Use to Enhance I / O Configuration
- Any Flexys I / O Card can be configured (One per Device)
- Upto 7 numbers of EXP FLEX 2M Devices can be connected to a Master PLC
- Two Baudrate selections - 19200 & 115200 bps
- RS485 Slave IN & OUT Separate Terminals (For easy loop & wiring)
- 4 LED Indicators
- Four Way DIP Switch for Slave ID & Baudrate selection

## Electrical Specification

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Supply voltage                                  | 24V DC $\pm 10\%$ |
| Power consumption                               | 2.5W              |
| Reverse Polarity Protection                     | Yes               |
| Isolation between Power & Communication Circuit | No                |

## Functional Specifications

|               |                                                                                    |
|---------------|------------------------------------------------------------------------------------|
| Response time | 100ms to 2 sec based on number of EXP FLEX 2M 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 bps  | OFF        | X   | X   | X   |
| 115200 bps | 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 Device receives RS485 command from Master                        |
| Transmit LED (Tx) | Red       | Blinks when EXP FLEX 2M 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 <sup>*1</sup>             |
|                   |           | Flashing - 0.3 sec ON, 0.3 sec OFF - when No Master Communication is received for 6 secs |
|                   |           | OFF - Successful Operation                                                               |

<sup>\*1</sup> : When configured I/O Card in SELPRO software is different from connected I / O card EXP FLEX 2M

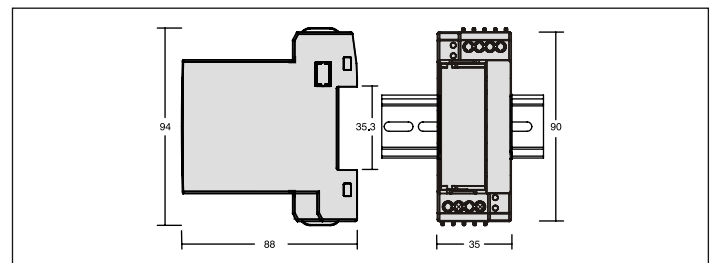
## Communication

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Communication Port     | RS485 Slave                                                       |
| Communication Protocol | Proprietary                                                       |
| Baud Rate              | 19200 and 115200 bps (user configurable)<br>(Default + 19200 bps) |
| Fixed Settings         | Parity = None (N), Stop bits = 1, Data length = 8                 |

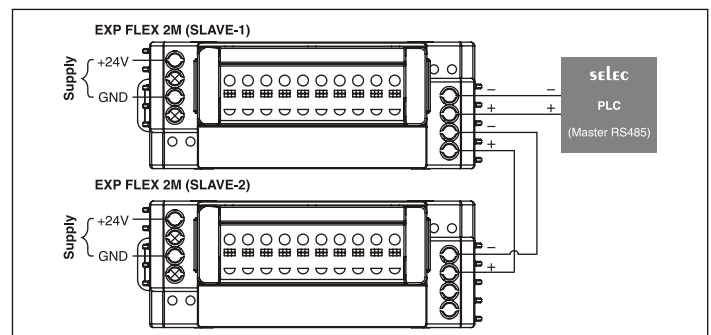
## Environmental Specifications

|                           |                                                |
|---------------------------|------------------------------------------------|
| Temperature               | Operating : 0 to 50°C<br>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  | Expansion Slot – Flexys IO Cards | RoHS          |