



Certifications : **CE 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 | | OFF | OFF | OFF |
| 1 | X | 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 ^{*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 software is different from connected I / O card EXP FLEX 2M

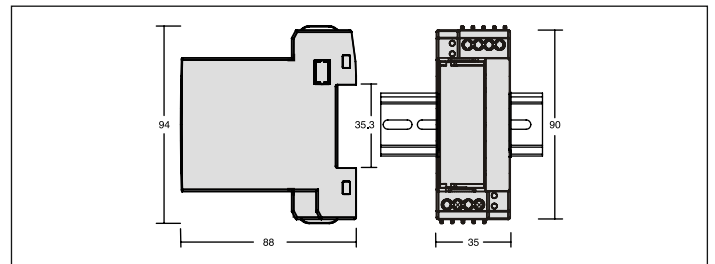
Communication

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

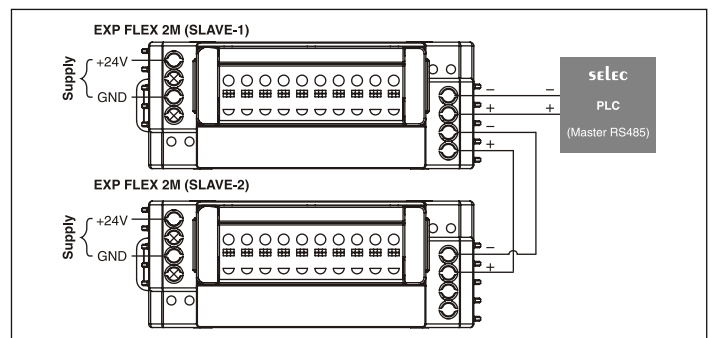
Environmental Specifications

| | |
|---------------------------|--|
| 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 | Expansion Slot – Flexys IO Cards | CE RoHS |