



### 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)
- Up to 7 numbers of EXP FLEX 2M devices can be connected to a Master PLCs
- 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 ±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 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  |
| <b>Baud Rate</b> |            |     |     |     |
| 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.

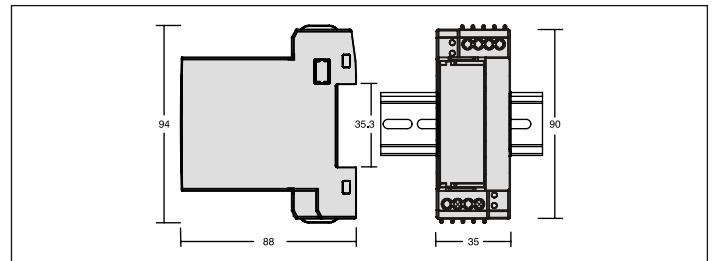
### Communication

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

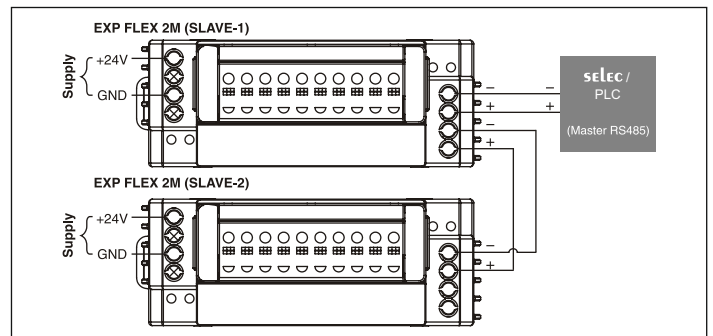
### Environmental Specifications

|                           |  |
|---------------------------|--|
| Temperature               | Operating : 0 to 50 °C<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 | CE RoHS       |

### Accessories (To be ordered separately)

|                |                  |
|----------------|------------------|
| Power Supplies | RPS60-24-CE-RoHS |
|----------------|------------------|