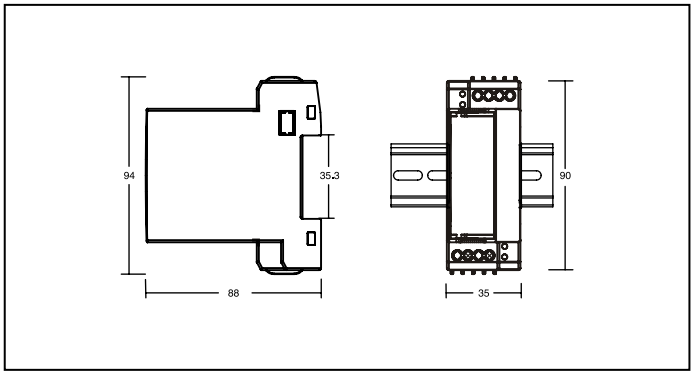
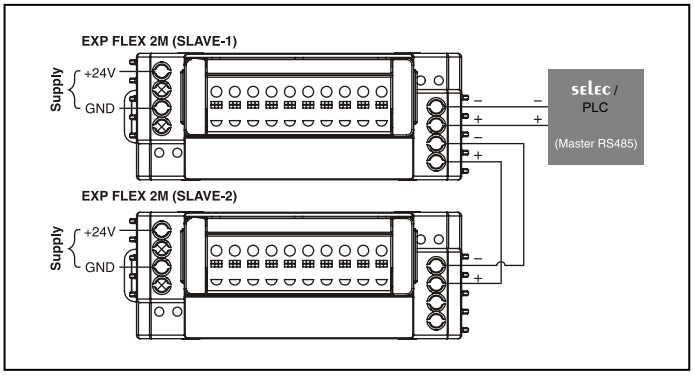
| | |
|---|---|
| Channel-to-Channel Isolation | Yes for Differential Input |
| Reverse Polarity Protection | TC - YES, RTD - N/A, 0-10V - YES, 0-20mA - YES, NTC - YES |
| Input Impedance | TC - 330kΩ, RTD - 510KΩ, 0-10V - 330KΩ, 0-20mA - 100Ω, NTC - NA |
| | |
| No. of Outputs | As per Card Configurations: 4 / 8 (NO) type Relay, 1 Common Lines for 4 Relay |
| Contact Rating | 5A @ 250V AC (resistive load), 5A @ 30V DC (resistive load) |
| Relay Type | SPST |
| Isolation (CPU ↔ Output) | 2.5kV |
| Isolation (Output ↔ Output) | NO |
| Polarity Inversion Protection | Yes |
| Response Time | 20ms |
| Mechanical Life | 5 Million Operations |
| | |
| No. of Outputs | As per Card Configurations: 8 Transistorized |
| Output Rating | 100mA @ 24V DC (current sourcing output), 18-30V DC (External Supply) |
| Output type | PNP (Source) |
| Short Circuit Protection | Yes |
| Isolation (CPU ↔ Output) | 2.5kV |
| Isolation (Output ↔ Output) | NO |
| Polarity Inversion Protection | Yes |
| Response Time | 10ms |
| Nominal Load | 240Ω (likely referring to the typical load resistance) |
| Breaking Current | 110mA (maximum current that can be interrupted) |
| | |
| No. of Channels | As per Card Configurations: 1 / 2 / 4 |
| Output Range | 0-10V DC / 0-20mA DC |
| Resolution | 12 Bits |
| Load Limit | 0-10V DC ≥ 1 kΩ, 0-20mA < 700 Ω |
| Digital Resolution | 0.0-100.0% = 0-10.000V DC, 0.0-100.0% = 0-20.000mA |
| Conversion Time | 100ms |
| Isolation (CPU ↔ Output) | Yes |
| Isolation (Output ↔ Output) | NO |
| Output Error @25 °C | ±0.25% of Full Scale |
| Linearity | 0.10% |
| | |
| Timer Operational Modes | Response time ranges from 100 ms to 2 seconds, depending on the number of devices and I/O card type. |
| Counter Modes | - |
| Other Functional Blocks | - |
| Memory Retention | - |
| Real-Time Clock (RTC) | - |
| Clock drift | - |
| | |
| Communication Port | RS485 [Slave] |
| Communication Protocol | MODBUS RTU |
| Connector | Screw Terminal |
| Transmission Mode | Half Duplex |
| Transmission Speed | 19200 or 115200 bps (user configurable via Dip switch , default: 19200) |
| Data Bits | 8 |
| Parity | None |
| Stop Bits | 1 |

| | |
|---|---|
| Operating Temp | 0°C to 55°C |
| Storage Temp | -20°C to 70°C |
| Humidity | 10% to 95% RH (Non-condensing) |
| Atmosphere | Must be free from Corrosive Gases |
| IP rating | Terminal - IP 20 |
| | |
| Weight | 87.1 grams |
| Mounting | Din rail |
| Dimensions in mm (WHD) | 35 x 90 x 90 |
| | |
| Supply Voltage | 18-30V DC |
| Inrush Current | 2.3A |
| Power Consumption | 2.5W |
| Polarity Inversion Protection | YES |
| Isolation (Power ↔ Communication) | YES |
| Source Supply Output | NA |

## Dimensions (All are in mm)




## Terminal Connection




## Ordering information

| Product code | Description | Certification |
|---|---|---|
| **EXP FLEX 2M** | Expansion slot - Flexys IO cards | RoHS |
| **EXP FLEX 2M V3** | Independent Remote IO base card | RoHS |

## Accessories (To Be Ordered Separately)

| Product Code | Description |
|---|---|
| **Power Supplies** | |
| RPS60-24-CE | 60W, 24V/2.5A DIN rail mounted power supply in plastic housing - CE Certified |
| **Software - www.selec.com/software** | |
| Selpro | Windows-based software for ladder logic and built-in HMI programming |
| USB to Serial Driver | USB to Serial cable drivers |
| EXP FLEX 2M V3 Utility | Windows-based software for configuring EXP FLEX 2M V3 modules |

## Supported I/O cards

| | | |
|---|---|---|
| **FL-SC-DI10-CE-RoHS** | Flexys IO – 10 Digital Input Card | RoHS |
| **FL-SC-DI14-CE-RoHS** | Flexys IO – 14 Digital Input Card | RoHS |
| **FL-SC-TO08-CE-RoHS** | Flexys IO – 8 Channel Transistor Output Card | RoHS |
| **FL-SC-RO08-CE-RoHS** | Flexys IO – 8 Channel Relay Output Card | RoHS |
| **FL-SC-DI04-RO04-CE-RoHS** | Flexys IO – 4 Digital Input & 4 Digital Output Card | RoHS |
| **FL-SC-AI04-U** | Flexys IO – 4 Channel Analog Input Card – Universal (Jumper Selectable) | RoHS in process |
| **FL-SC-AI06-V-CE-RoHS** | Flexys IO – 6 Channel Analog Input Card – Voltage | RoHS |
| **FL-SC-AI06-I-CE-RoHS** | Flexys IO – 6 Channel Analog Input Card – Current | RoHS |
| **FL-SC-AI06-V/I** | Flexys IO – 6 Channel Analog Input Card – Voltage/Current | RoHS |
| **FL-SC-AI06-V/I-ISO** | Flexys IO – 6 Channel Analog Input Card – Voltage/Current (Isolated) | RoHS |
| **FL-SC-AI04-TC-CE-RoHS** | Flexys IO – 4 Channel Analog Input Card – Thermocouple | RoHS |
| **FL-SC-AIDF05-TC-CE-RoHS** | Flexys IO – 5 Channel Differential Analog Input Card – Thermocouple | RoHS in process |
| **FL-SC-AIDF05-TC-ISO-CE-RoHS** | Flexys IO – 5 Channel Differential Analog Input Card – Thermocouple (Isolated) | RoHS in process |
| **FL-SC-AI04-RTD-CE-RoHS** | Flexys IO – 4 Channel Analog Input Card – RTD (PT-100) | RoHS |
| **FL-SC-AI01-AO01-V/I** | Flexys IO – 1 Channel Analog Inputs, 1 Channel Analog Output (Voltage/Current) | RoHS in process |
| **FL-SC-AI03-U-AO02-U** | Flexys IO – 3 Channel Analog Input – Universal, 2 Channel Analog Output – Universal Card (Jumper Selection) | RoHS in process |
| **FL-SC-AI03-NTC-AI03-I** | Flexys IO – 3 Channel Analog Inputs – NTC, 3 Channel Analog Inputs – Current Card | RoHS |
| **FL-SC-AO04-V-CE-RoHS** | Flexys IO – 4 Channel Analog Output Card – Voltage | RoHS |
| **FL-SC-AO04-I-CE-RoHS** | Flexys IO – 4 Channel Analog Output Card – Current | RoHS |
| **FL-SC-LC04** | Flexys IO – 4 Channel Loadcell Input Card (24 bits) | RoHS in process |

*Refer to the IO card and base module compatibility guidelines to ensure effective and valid IO card combinations.*