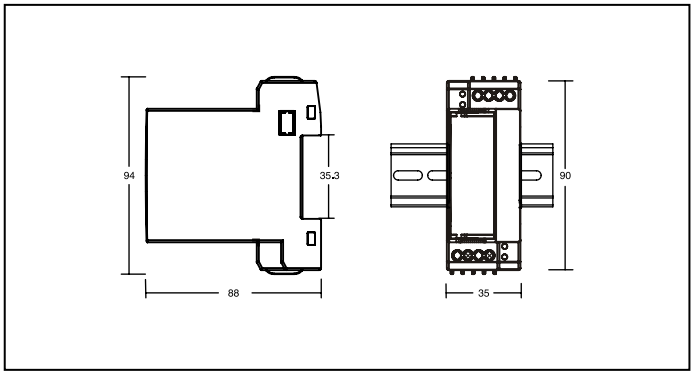
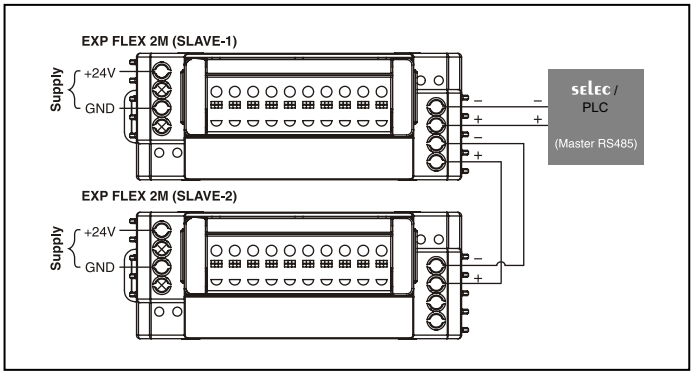
Channel-to-Channel Isolation	Yes for Differential Input
Reverse Polarity Protection	TC - YES, RTD - N/A, 0-10V - YES, 0-20mA - YES, NTC - YES
Input Impedance	TC - 330kΩ, RTD - 510KΩ, 0-10V - 330KΩ, 0-20mA - 100Ω, NTC - NA
No. of Outputs	As per Card Configurations: 4 / 8 (NO) type Relay, 1 Common Lines 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.