

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)	Yes
Isolation (Output ↔ Output)	NO
Polarity Inversion Protection	Yes
Response Time	10ms
Mechanical Life	5 Million Operations

Note: The 230V model supports a maximum of 2 FL-SC-RO08-CE-RoHS or FL-SC-DI04-RO04-CE-RoHS cards only.

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	10 ms
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: 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% = 0-10.000 V DC, 0.0-100.0% = 0-20.000 mA
Conversion Time	100ms
Isolation (CPU ↔ Output)	Yes
Isolation (Output ↔ Output)	NO
Output Error @25°C	±0.25% of Full Scale
Linearity	0.10%

Note (for 230V Model):

Supports only one of the following analog output cards: FL-SC-AO04-V-CE-RoHS or FL-SC-AO04-I-CE-RoHS

Cannot be used together: FL-SC-AO04-V-CE-RoHS / FL-SC-AO04-I-CE-RoHS with FL-SC-RO08-CE-RoHS or FL-SC-DI04-RO04-CE-RoHS.

Supports combination of: FL-SC-AI03-U-AO02-U with up to 2 FL-SC-RO08-CE-RoHS cards.

Does not support using FL-SC-AI03-U-AO02-U together with FL-SC-AO04-V-CE-RoHS or FL-SC-AO04-I-CE-RoHS.

Maximum 2 units of FL-SC-AI03-U-AO02-U are supported on the 230V model.

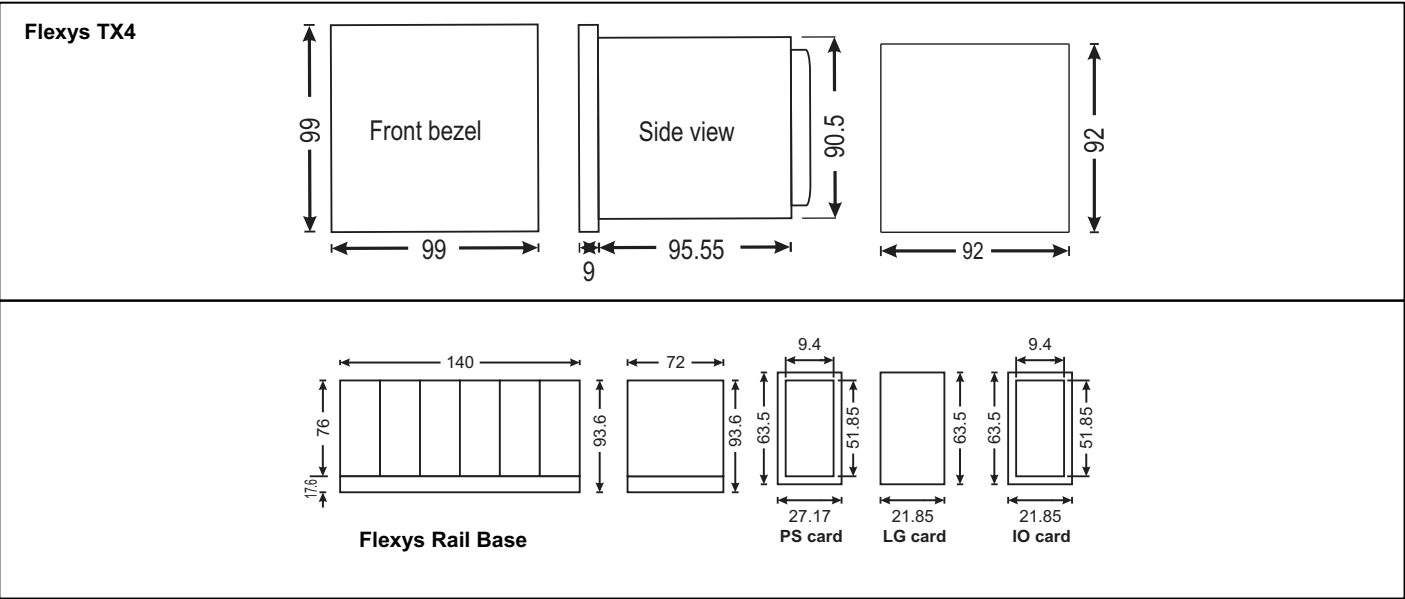
Programming Software	Windows-Based Ladder & HMI Configuration
Program Memory	351 KB
Data Memory	20 KB
EEPROM	4 KB
Upload Memory	96 KB
Max Objects	2000 (Subject to Memory Availability)
Min Scan Time	200μs
Typical Scan Time	1ms (Depends on Ladder Logic Complexity)

Timer Operational Modes	On Delay, Off Delay, Special Timer (Up/Down), Pulse Timer, 1ms Timer*
Counter Modes	Up Counter, Down Counter, Up/Down Counter, Special [Up/Down] Counter
Other Functional Blocks	Array, For Next, Totalizer, Rate Totalizer, Analog Input, Scaling, FTC, Hysteresis, PIDT, Ramsoak, Communication
Memory Retention	10 years (2 KB)

Real-Time Clock (RTC)	Yes	
Clock drift	Maximum ±4 seconds per day	
*Limited to 4 Nos		
Communication Port	RS485 [Slave], RS485 [Master] for Expansion	
Communication Protocol	MODBUS RTU	
Connector	RJ25 Port	
Transmission Mode	Half Duplex	
Transmission Speed	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps	
Data Bits	7 or 8	
Parity	None, Odd, Even, Space, Mark	
Stop Bits	1 or 2	
Operating Temp	0°C to 55°C	
Storage Temp	-20°C to 60°C	
Humidity	10% to 95% RH (Non-condensing)	
Atmosphere	Must be free from Corrosive Gases	
IP rating	IP 65 (Front)	
Weight	329.2 grams	251.2 grams
Mounting	Panel Mountable	DIN Rail Mountable
Dimensions in mm (WHD)	99 x 95.6 x 90.5 (HWD)	140 x 93.4 x 72 (WHD)
Supply Voltage	Without Retention: 90-270V AC @50/60 Hz DC Input Option: 18-30V DC	
Inrush Current	5A for AC / 2.3A for DC supply	5A for AC / 2.3A for DC supply
Power Consumption	13VA /12W	13VA / 12 W
Polarity Inversion Protection	Yes	
Isolation (Power ↔ Communication)	Yes	
Source Supply Output	10V DC, 50mA for AC Variant	

Note: A maximum of 25 variables of type VAR_IN_OUT and VAR_OUTPUT (each 32-bit) can be retained when operating at 110V.

Dimensions (All are in mm)



Port description

Pin	Description
1	RS485 slave +ve
2	RS485 master +ve
3	RS485 master -ve
4	NA
5	NA
6	RS485 slave -ve

Accessories (To Be Ordered Separately)

Product Code	Description
RPS60-24-CE	60W, 24V/2.5A DIN rail mounted power supply in plastic housing - CE Certified
AC-USB-RS485-03	Protocol Converter Cable - USB to RS485 (RJ25)
AC-USB-RS485-02	Protocol Converter Cable - USB to RS485 (2 wire)
ACH-004-CE-RoHS	Expansion Cable - RJ25 to RJ25 (6Pin)
AC-IOEXP-03-CE-RoHS	Communication Adapter
ERLYMD-2-1-S8-1CO-24V-CE-RoHS	8 Channel 1 Change Over, Communication based
EXP FLEX 2M	Expansion Slot - For Flexys IO Cards
EXP FLEX 2M V3	Independent Remote IO base - For Flexys IO Cards
Selpro	Windows-based software for ladder logic and built-in HMI programming
USB to Serial Driver	USB to Serial cable drivers

Ordering information

Flexys Panel TX4		
FL-TX4-DI04-PS-230V-CE-RoHS	Flexys Panel TX4 - Power Supply Card - 230VAC, 4 Digital Inputs	
FL-TX4-DI04-PS-24V-CE-RoHS	Flexys Panel TX4 - Power Supply Card - 24VDC, 4 Digital Inputs	
FL-TX4-LG-1-0-1-V2-CE-RoHS	Flexys Panel TX4 - Logic card - RTC, MODBUS	
Flexys rail		
FL-RL-PS-230V	Flexys Rail - Power Supply Card - 230VAC	
FL-RL-DI04-PS-24V-CE-RoHS	Flexys Rail - Power Supply Card - 24VDC, 4 Digital Inputs	
FL-RL-BS-6-CE-RoHS	Flexys rail - Base card	
FL-RL-LG-1-0-1-V2-CE-RoHS	Flexys rail - Logic card - RTC, MODBUS	

Supported I/O cards

I/O cards will be common for Flexys Panel TX4 & Flexys Rail

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

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