



48 x 96 mm

Features :

- Compact PLC with built-in HMI
- Configurable LED display
- Windows based user friendly software for ladder Programming & HMI configuration
- RS485 based communication with MODBUS Protocol

Certification :  RoHS**Display Specifications**

Display	7 segment LED
Digits	(4 + 4) Red + 6 Green digits
LED bank	4 Red LED's, 4 Green LED's
No. of Keys	5 keys (4 user configurable)

Input Specifications

Digital Input	
Digital inputs	6 + 2 (Including fast Input & Analog Input Configurable as Digital Input)
Input Type	PNP
Input Voltage Range	5 - 30V DC
Response Time	Typical 2 mSec (Based on ladder scan time) & 100 μ Sec for fast Input
Debounce Time	0 to 255 mSec (Default 10 mSec)
Fast Input	
Input Type	PNP
No. of fast Input channels	1
Max Speed	5kHz
Analog Input	
No. of channels	6 [2 (TC / RTD), 2 (0 - 10V DC), 2 (0 - 20mA DC)]
Sensors	J, K, T, R, S, C, E, B, N, L, U, W, PLTNL II, PT100, mVolt (-5 to 65mV)
Resolution	12 bit for temperature, 12 bit for Als
Accuracy	0.25% $\pm$ 1°C (TC), 0.1% $\pm$ 1°C (RTD) at 25°C $\pm$ 0.25% of FS.
Conversion time	100 ms

Output Specifications

Digital Output - Relay	
Digital Outputs	5 (NO type with 2 COM point)
Contact Rating	3A @ 240V AC (Resistive) 3A @ 28V DC (Resistive)
Response Time	10 mSec
Mechanical life	2 x 10 ⁷ ops
Isolation	No
Analog Output	
No. of Channels	1
Output Range	Current (0 - 20mA DC) / Voltage (0 - 10V DC)

Resolution	14 Bit
Digital Resolution	0.0 - 100.0% = 0.0 - 10.000V = 0.0 - 20.000mA
Conversion time	10 ms

Communication

Communication Port	RS485 [Slave]
Communication Protocol	MODBUS RTU
Connector	Screw Terminal
Transmission Mode	Half duplex
Transmission Speed	9600, 19200, 38400, 57600, 115200
Data Bits	7 or 8
Parity	None, Odd, Even, Space, Mark
Stop Bits	1 or 2
Settable Slave	1D - 1 - 255

Functional Specifications

Programming Method	Windows based software for ladder programming and HMI configuration
Memory	Data memory : 32 KB
	Code memory : 240 KB
	EEPROM Memory : 2 KB
Max. no. of Objects	2000 (As per memory)
Minimum Scan Time	200 μ Sec
Typical Scan Time	1 ms (Based on ladder scan time)

Environmental Specifications

Operating Temperature	0 to 55°C
Storage Temperature	-20 to 70°C
Humidity (non-condensing)	95% RH

Mechanical Specifications

Mounting	Panel
Weight	240 gms approx

Functional Features

Timer Operational Modes	On Delay, Off Delay, Pulse, Special [Up / Down] Timer, 1ms Timer*
Timer Resolution	1 ms (Accurate only for 1 msec Timer block)
Counter	Up Counter, Down Counter, Up / Down Counter, Special [Up / Down] Counter
Other Blocks	Analog input & output, FTC, PID, Ramp soak
Memory Retention	10 years (2k memory)
RTC	No

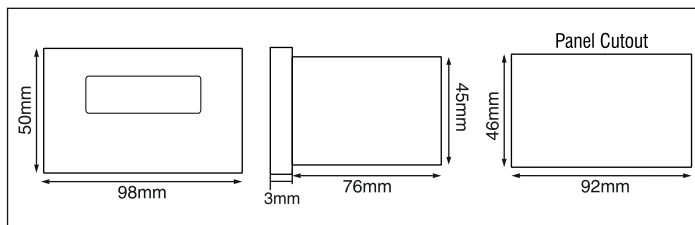
*Usage limited to only 4 Nos

Supply Specification

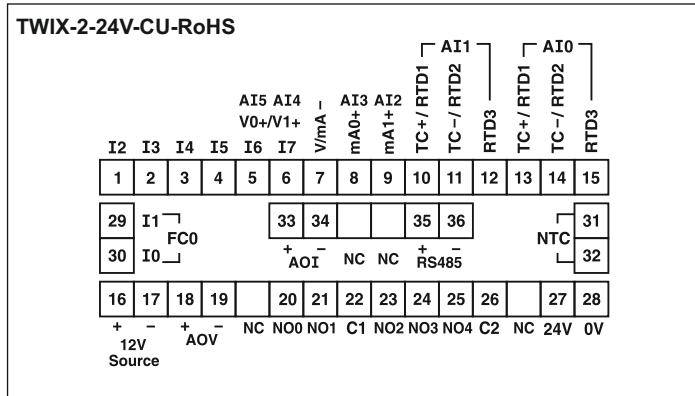
Supply Voltage	90 to 270V AC 50 / 60 Hz / 18 -30V DC
Power Consumption	6W Max
Source	12V, 50mA

VAR IN_OUT & VAR OUTPUT types Variables Maximum 120 bytes retention

Dimensions (in mm)



Terminal Connection



Ordering Information

Product Code	Description	Certification
TWIX-2-24V-CU-RoHS	PLC - (6 + 2) DI, 6 AI, 5 DO, 1 AO, 24V DC Supply	RoHS

Accessories (To be ordered separately)

Downloading cable	AC-USB-RS485-02
Power Supplies	RPS60-24-CE-RoHS
Relay modules	
1) RLYMD-1-S4-1CO-24VDC	4 Channel 1 change over relay module
2) RLYMD-1-S4-2CO-24VDC	4 Channel 2 change over relay module
3) RLYMD-2-S8-1CO-24VDC	8 Channel 1 change over relay module
4) RLYMD-2-S8-2CO-24VDC	8 Channel 2 change over relay module
5) ERLYMD-2-1-S8-1CO-24VDC	8 Channel 1 change over communication based relay module
Networking	ACH-004 (RJ25 Cable)
	AC-IOEXP-03 (Expansion Adaptor)
	AC-USB-RS485-03 (USB to RS485 Cable)