

PRELIMINARY DATASHEET



Features:

- Compact PLC with built-in HMI
- Configurable LED display
- Windows based user friendly software for ladder Programming
- RS 485 based communication with MODBUS Protocol

Size: 48mm x 96mm

Technical Specifications

Display

Display	7 segment LED
Digits	(8 Red) + (6 Green) digits
LED	4 Red LED's, 4 Green LED's
No. of Keys	5 keys (4 user configurable)

Input Specifications

Digital Input	
No. Of digital input	6
Input Type	PNP
Input Voltage Range	7-16V DC [abs. max.: 30V DC]
Response Time	Programmable upto 1 to 255ms from Front End (Default 10ms) (Also depends on ladder execution time)
Fast Counter Input	
Input Type	PNP

Analog Input

No. Of Inputs	1		
Description	Sensor Type	TC	RTD
	Sensor	J, K, T, R, S, C, E, B, N, L, U, W, PLTNL, mV (0-60mV)	PT100
	Resolution	12 bits	
Accuracy	Accuracy@25°C ; 0.25% or ± 1C (Whichever is greater)		
Conversion time	100 msec		

Output Specifications

Digital Output - Relay	
No. of Relay Output	4
Contact Rating	NO type; 7A resistive@230V AC / 28V DC
Response Time	10 ms

Communication:

Communication Port	RS485 port [slave]
Communication Protocol	MODBUS RTU

Functional Specifications:

Programming Method	Windows based software for ladder programming and HMI configuration.
Memory	Data memory: 8 kbytes Code memory: 96 kbytes
Max. no. of Objects	2000 (As per memory)
Typical Scan Time	1 ms

Environmental Specifications

Temperature	Operating : 0 to 50°C Storage : -20 to 70°C
Humidity (non-condensing)	10% to 95% RH

Mechanical Specifications

Mounting	Panel mount
Weight	258gms (Approx.)

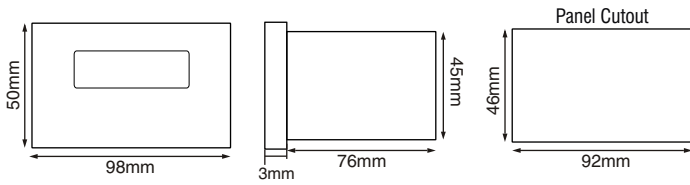
Functional Features

Timer Operational Modes	On Delay, Off Delay, Pulse, Special [Up/Down] 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, FTC, PID, Rampsock
Memory Retention	10 years (2k memory)
RTC	No

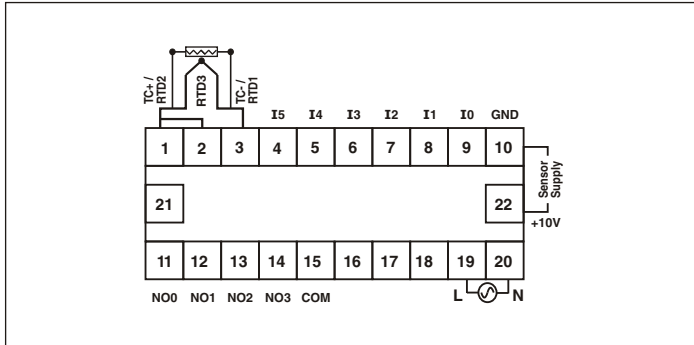
Supply Specification

Supply Voltage	180-270V AC, 50Hz
Sensor Supply	10V

Dimensions (in mm)



Terminal Connections



Ordering Information

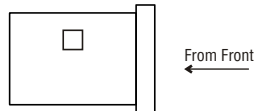
Product	Order Code
TWIX-1-230V	TWIX-1-230V

Accessories (To be ordered separately)

Communication cable	ACH-004 (6 pin to 6 pin RJ25 jack) AC-IOEXP-02 (Port expansion adapter)
Converters	
RS485 to RS232	AC-RS485-RS232-01 (Non Isolated) AC-RS485-RS232-ISO (Isolated)
USB to RS485 (with jack)	AC-USB-RS485-03
USB to RS485 (with wire)	AC-USB-RS485-02

RS485 for downloading and networking

RS485 on side terminal
(Communication port 1)



Port Description

Port 1 (6 pin jack)

PIN	Description
1	RS485 +ve
2	NC
3	NC
4	NC
5	NC
6	RS485 -ve