

Size: 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

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

No. of Digital Inputs 8
Input Type PNP
Input Voltage Range 5 - 30V DC

Response Time Typical 2 mSec (Based on Ladder Scan Time)

100 µSec for Fast Input

Debounce Time 0 to 255 mSec (Default 10 mSecs)
Timer Accuracy 0.1% or 2ms (Whichever is greater)

Fast Counter Input

Input Type PNP
No. of fast Input channels 1
Max Speed 5 kHz

Analog Input

No. of channels 1
Sensor Type TC / RTD

 $\label{eq:constraints} Sensor \qquad \qquad J,\,K,\,T,\,R,\,S,\,C,\,E,\,B,\,N,\,L,\,U,\,W,\,PLTNL,$

mV (-5 to 65mV), Pt100

Accuracy $0.25\% \pm 1^{\circ}\text{C (TC)}, 0.1\% \pm 1^{\circ}\text{C (RTD)}$ at 25C

Conversion time 50 mSec

Resolution 14 Bits

Input Impedance 560k for TC

 $750k\Omega$ for RTD

Maximum Non destructive Input 5V

Communication

Communication Port	RS485 Port [Slave]
Communication Protocol	MODBUS RTU
Connector	RJ25,6 pin Jack

Output Specifications

Digital Output - Transistor

No. of Digital Outputs 6

Output Type Source 100mA each @ 24V DC

Response Time 10 ms
Short Circuit Protection Yes
Isolation between CPU & Output No
Isolation between Outputs No
Nominal Load 240 E
Breaking Current 110mA

Functional Specifications

Programming Method Windows based software for ladder

programming and HMI configuration.

Memory Data memory : 16 kB

Code memory: 112 kB EEPROM Memory: 1 kB 2000 (As per memory)

Max. no. of Objects 2000 (As per Minimum Scan Time 200 μ Sec

Typical Scan Time 2 mSec (Based on ladder scan time)

Environmental Specifications

Operating Temperature 0 to 55°C

Storage Temperature -20 to 70°C

Humidity (non-condensing) 10% to 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 mSec (Accurate only for 1 mSec Timer block)

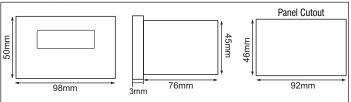
Counter
Up Counter, Down Counter,
Up/Down Counter, Special [Up/Down] Counter

Other Blocks
Analog Input, FTC, PIDT, Rampsoak
Memory Retention
10 years (2KB)

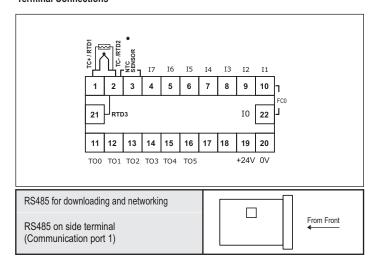
Supply Specification

Supply Voltage	18 to 30V DC	
Power Consumption	6W Max	

Dimensions (in mm)



Terminal Connections



Port Description

Port 1 (6 Pin Jack)		
Description		
RS485 + ve		
NC		
RS485 - ve		

Ordering Information

Product Code	Description	Certification
TWIX-3-24VDC	PLC – 8DI, 6DO, 1AI (TC/RTD) & 24VDC	C € RoHS in Process

Accessories (To be ordered separately)

Downloading Cable	AC-USB-RS485-03
Networking	ACH-004 (RJ25 Cable)
	AC-IOEXP-03 (Expansion Adapter)
	AC-USB-RS485-02 (USB to RS485 Cable)

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