

48 x 96 m

# 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 RTU Protocol

#### **Display Specification**

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	

No. of Digital Inputs 6
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 mSec)

**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

Sensor  $J,\,K,\,T,\,R,\,S,\,C,\,E,\,B,\,N,\,L,\,U,\,W,\,PLTNL,$ 

mV (-5 to 65mV), PT100

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

Conversion time 50 msec
Resolution 14 Bits

## **Output Specifications**

Digital Output - Relay

 No. of Outputs
 4

 Type
 Relay

 Relay Type
 SPST

Contact Rating 5A@230V AC (Resistive)

5A@28V DC (Resistive)

Response Time 10 mSec
Mechanical Life 2000000 Cycles

Isolation No

#### Communication

Communication port RS485 [Slave]
Communication protocol MODBUS RTU
Connector RJ25 (6 Pin Jack)
Transmission mode Half Duplex

Transmissions speed 9600, 19200, 38400, 57600, 115200 bps

Data bits 7 or 8

Parity None, Odd, Even, Space, Mark

Stop bits 1 or 2

#### **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
Max. no. of objects	2000 (As per memory)
Minimum scan time	200 μSec
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 memory)
RTC	No

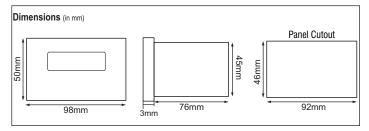
<sup>\*</sup>Usage Limited to 4 nos

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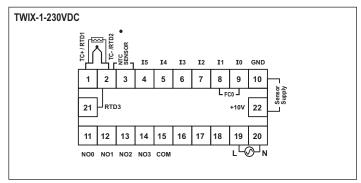
# **Supply Specification**

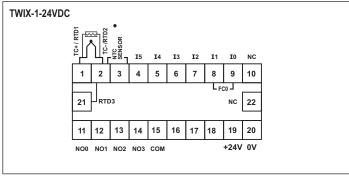
Supply Voltage	90 to 270V AC 50 / 60 Hz, 18-28 VDC
Power Consumption	6W Max
Source Supply (SS)	10V, 50mA (Applicable only for 230V AC model)

VAR IN\_OUT & VAR OUTPUT types Variables Maximum Retention 25 variables only each of 32 bit @110V, @24VDC



### **Terminal Connections**





RS485 for Downloading and Networking	
Rs485 on Side Terminal (Communication Port 1)	From Front

# Port Description

Port 1 (6 pin jack)	
PIN	Description
1	RS485 Slave +ve
2	-
3	-
4	-
5	-
6	RS485 Slave -ve

# **Ordering Information**

Product Code	Description	Certification
TWIX-1-230V	PLC – 6DI, 4RO, 1AI (TC/RTD) & 230VAC	<b>(€ RoHS</b> in Process
TWIX-1-24VDC	PLC – 6DI, 4RO, 1AI (TC/RTD) & 24VDC	<b>C € RoHS</b> in Process

# **Accessories** (To be ordered separately)

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

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