

70 x 90 x 66.4mm

## Features:

- · Compact PLC with built in HMI
- 2 line 8 character LCD
- Analog Input Available
- Windows based user friendly software for ladder programming & HMI configuration
- RS485 based communication with MODBUS protocol

### **Display Specifications**

Display	2 line X 8 characters LCD (Green backlight)
No. of keys	5 keys (4 - User configurable)

#### Input Specifications

Digital Input	
No. Of digital input	10 + 2(Optional)
Input Type	PNP

Input Voltage Range 5 - 30V DC

Response Time Typical 2 ms (Based on ladder scan time) & 100

µsec for fast Input Isolation between Power

supply& Inputs Yes

Isolation between Inputs

& MCU No

Debounce Time 0 to 255 ms (Default 10 ms)

Timer Accuracy 0.1% or 2ms (Whichever is greater)

Analog Input

No of Inputs 2(Al0 & 2Al1)(Configurable as Digital input)

Yes

 Input type
 0 -10V

 Accuracy at 25 °C
 0.5% or 5mV.

 Resolution
 12 Bits

 Conversion time
 100msec.

 Input Impedence
 330k ohms

 Destructive Input
 20V

 Isolation between channels
 No

Isolation between Polarity Inversion

Fast Counter Input

Input TypePNPNo. of fast Input channel1Max Speed5kHz

## **Output Specifications**

 Digital Output - Relay

 No. of Relay Output
 8

 Type
 Relay

 Relay Type
 SPST

Contact Rating NO: 5A [Resistive @230V AC,30V DC]

Operate Time 10ms
Mechanical life 2000000

#### Communication

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

### **Functional Specifications**

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

### **Environmental Specifications**

remperature	Storage : -40 to 70°C
Humidity (non-condensing)	10% to 95% RH

## **Mechanical Specifications**

Mounting	Din Rail mount	
Weight	Approx 320 gms	

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### **Functional Features**

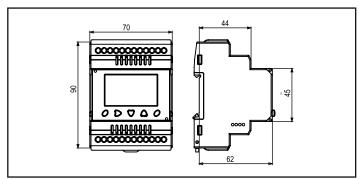
Timer Operational Modes	On Delay, Off Delay, Pulse, Special [Up/Down] Timer, 1 ms Timer*
Timer Resolution	1 ms (Accurate only for 1 msec Timer block)
Counter	Up Counter, Down Counter, Up/Down Counter, Special [Up/Down] Counter
Memory Retention	10 years (1k memory)
RTC	No
Clock Data Retention	NA
Clock Drift	NA
*Usage Limit Only 4 Nos	

## **Auxiliary Supply Specifications**

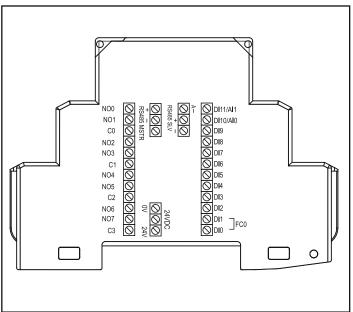
Supply Voltage	24V DC (±20 %)
Power Consumption	4W
Source	NA

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

## Dimensions (All dimensions are in mm)



## **Terminal Connections**



RS485 SLV+, - Terminals used for downloading program into PLC

# **Ordering Information**

Order Code	Description
Digix-2-1-0-24V	10+2 DIs, 2AIC(O -10V), 8 RO, RS485 Master, 24VDC, Auxiliary Supply

### Accessories (To be ordered separately)

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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

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