

70 x 90 x 66.4mm

# Features:

- Windows based User Friendly Software For Ladder Programming & HMI Configuration
- RS485 based Communication with MODBUS RTU Protocol

### **Display Specifications**

Display	LED Indication for Power ON,
	I/O's & Communication Status
No. of Keys	NA

### **Input Specifications**

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Digital Input	
No. of Digital Inputs	8
Input Type	PNP
Input Voltage Range	6 - 30V DC
Response Time	Typical 2 msec (Based on Ladder Scan time) & 100 μSec for Fast Input
Isolation	No
Debounce Time	10ms
Timer Accuracy	0.1% or 2 msec (Whichever is greater)
Fast Input	
No. of Channels	1
Frequency	5 kHz

# **Output Specifications**

Digital Output - Relay	
No. of Digital Outputs	5 (NO type with 2 COM points)
Contact rating	5A @ 240V AC (Resistive) 5A @ 28V DC (Resistive)
Isolation	No
Response Time	20 msec
Mechanical endurance	5 x 10 <sup>6</sup>

#### Communication

Communication Port	RS485 [Slave]
Communication Protocol	MODBUS RTU
Connector	RJ25 (Slave)
Transmission Mode	Half Duplex
Transmission Speed	9600, 19200, 38400, 57600, 115200 bps
Parity	None, Odd, Even
Data Bits	8
Stop Bits	1 or 2
Settable Slave	1 - 255

### **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	DIN Rail Mount
Weight	Approx 240 gms.

# **Functional Features**

Timer Operational Modes	On Delay, Off Delay, Pulse, Special [Up/Down] Timer, 1ms Timer*
Timer Resolution	1ms
Counter	Up Counter, Down Counter, Up/Down Counter, Special [Up/Down] Counter
Other Blocks	PIDT, Rampsoak
Memory Retention	10 years (1 KB)
RTC	NA

<sup>\*</sup>Usage limited to 4 No.s only

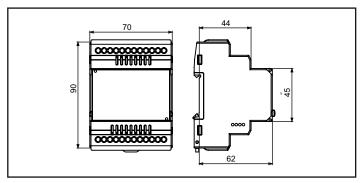
## **Auxiliary Supply Specification**

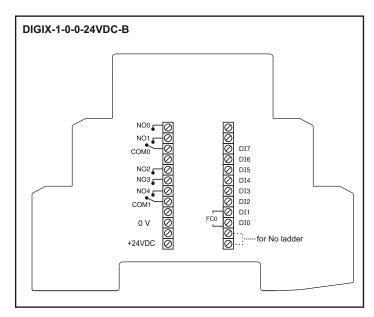
Supply Voltage	18 to 30V DC
Power Consumption	5W Max
Source	NA

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

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## Dimensions (All dimensions are in mm)





## **Port Description**

Port 1 (6 Pin Jack)		
Pin	Description	
1	RS485 + ve	
2	NC	
3	NC	
4	NC	
5	NC	
6	RS485 - ve	

# **Ordering Information**

Product Code	Description	Certification
DIGIX-1-0-0- 24VDC-B	PLC – 8DI, 5RO & 24VDC – Without Display	<b>C€ RoHS</b> in Process

### Accessories (To be ordered separately)

Addessories (To be ordered separately)	
Downloading cable	AC-USB-RS485-03
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
	ACH-004 (RJ25 Cable)
Networking	AC-IOEXP-03 (Expansion Adaptor)
	AC-USB-RS485-02 (USB to RS485 Cable)

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