

70 x 90 x 66.4mm

# Features:

- . Compact PLC with built in HMI
- 2 x 8 character LCD
- **Real Time Clock**
- **RS485 based Communication with MODBUS Protocol**
- Serial Printing

# **Display Specifications**

Display	2 x 8 Characters LCD (Yellow Green Backlight & Text Black)
No. of Keys	5 Keys (4 - User Configurable)

Input Specifications	
Digital Input	
No. of Digital Inputs	10
Input Type	PNP
Input Voltage Range	6 - 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 Input & MCU	No
Debounce Time	10ms
Timer Accuracy	0.1% or 2ms (Whichever is greater)
Fast Counter Input	
Input Type	PNP

5kHz

## **Output Specifications**

Max Speed

No. of Fast Input Channel

Digital Output - Transistor		
No. of Outputs	6	
Output Type	Source 100mA each @ 24V DC	
Response Time	5ms	
Short Circuit Protection	Yes	
Isolation between CPU & Output	No	
Isolation between Output	No	
Nominal Load	240E	
Breaking Current	110mA	

# **Environmental Specifications**

Temperature	Operating : 0 to 55°C Storage : -20 to 70°C
Humidity (non-condensing	) 10% to 95% RH

## Communication

Communication Port	RS485 [Slave]
	RS485 [Master]
Communication Protoco	ol MODBUS RTU
Connector	RJ25 (Slave)
	Screw Terminal (Master)
Supported Expansion	EXP FLEX 2M
Transmission Mode	Half Duplex
Transmissions Speed	9600, 19200, 38400, 57600, 115200 bps
Parity	None, Odd, Even, Mark, Space
Data Bits	7 or 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 : 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 mSec (Based on Ladder Scan Time)

# **Mechanical Specifications**

Mounting	DIN Rail	
Weight	320gms	

### 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)

#### **Functional Features**

Timer Operational Modes On Delay, Off Delay, Pulse,

Special [Up/Down] Timer, 1ms 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, PIDT, Rampsoak

Memory Retention 10 Years (1 kB)

RTC Yes

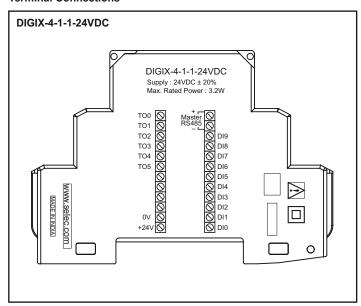
Clock Data Retention 10 Years as 25°C

## **Auxiliary Supply Specification**

Supply Voltage	24V DC (18 to 30V DC)
Power Consumption	3.2W
Source	NA

VAR IN OUT & VAR OUTPUT types Variables Maximum Retenstion 25 variables only each of 32 bit @ 24 VDC

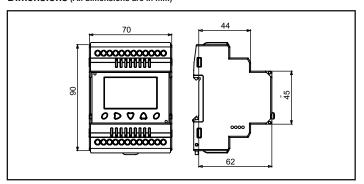
#### **Terminal Connections**



## **Port Description**

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

# Dimensions (All dimensions are in mm)



# **Ordering information**

Product Code	Description	Certification
DIGIX-4-1-1-24VDC	PLC – 10DI, 6TO & 24VDC – RTC and MODBUS Expansion - 24VDC	(€ RoHS

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

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