



70 x 90 x 66.4mm

## Features :

- Compact PLC with built in HMI
- 2 x 8 character LCD
- 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 + 2*
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	0 to 255 ms (Default 10 ms)
Timer Accuracy	0.1% or 2ms (Whichever is greater)
Analog Input	
No of Inputs	2(AI0 & 2AI1)(Configurable as Digital input)
Input type	0 -10V
Accuracy at 25 °C	0.5% or 5mV.
Resolution	12 Bits
Conversion time	100msec.
Input Impedance	330k ohms
Destructive Input	20V
Isolation between channels	No
Isolation between Polarity Inversion	Yes
Fast Counter Input	
Input Type	PNP
No. of Fast Input Channel	1
Max Speed	5kHz

### Output Specifications

Digital Output - Relay	
No. of Relay Output	8
Type	Relay
Relay Type	SPST
Contact Rating	5A @ 240VAC (Resistive) 5A @ 28VDC (Resistive)
Operate Time	20ms
Mechanical endurance	5 x 10 <sup>6</sup>

### Communication

Communication Port	RS485 [Slave] RS485 [Master]
Communication Protocol	MODBUS RTU
Supported Expansion	EXP FLEX 2M

### 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 ms (Based on ladder scan time)

### Environmental Specifications

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

### Mechanical Specifications

Mounting	Din Rail mount
Weight	Approx 320 gms

### Functional Features

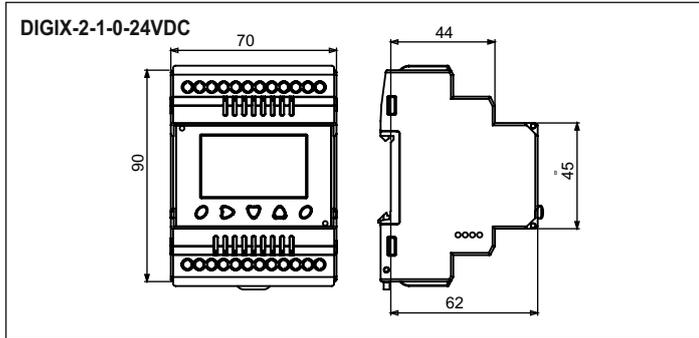
Timer Operational Modes	On Delay, Off Delay, Pulse, Special [Up/Down] Timer*
Timer Resolution	1 ms (Accurate only for 1 msec Timer block)
Counter	Up Counter, Down Counter, Up / Down Counter, Special [Up/Down] Counter
Memory Retention	10 years (1KB)
RTC	No
Clock Data Retention	NA
Clock Drift	NA

\*Usage limited to only 4 Nos

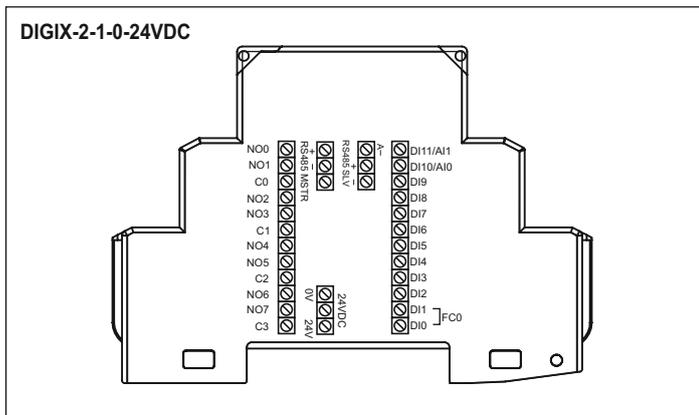
### Supply Specification

Supply Voltage	24V DC (±20 %)
Power Consumption	5W

### Dimensions (All dimensions are in mm)



### Terminal Connections



### Ordering Information

Product Code	Description	Certification
DIGIX-2-1-0-24VDC	10DI, 8RO, 2AI-V/2DI & 24VDC – MODBUS Expansion- 24VDC	CE RoHS

### Accessories (To be ordered separately)

Downloading cable	AC-USB-RS485-03
Power Supplies	RPS60-24-CE-RoHS
<b>Relay modules</b>	
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
Networking	ACH-004 (RJ25 Cable)
	AC-IOEXP-03 (Expansion Adaptor)
	AC-USB-RS485-02 (USB to RS485 Cable)