



## Features:

- Compact PLC with built in HMI
- 2 line 8 character LCD
- Real Time Clock
- Windows based user friendly software for ladder programming & HMI configuration
- RS485 based communication with MODBUS protocol

Size: 70 x 90 x 66.4mm

## Technical Specifications

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

Input Specifications	
<b>Digital Input</b>	
No. Of digital input	8
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	No
Debounce Time	0 to 255 ms (Default 10 ms)
Timer Accuracy	0.1% or 2ms (Whichever is greater)
<b>Fast Counter Input</b>	
Input Type	PNP
No. of fast Input channel	1
Max Speed	5kHz

Output Specifications	
<b>Digital Output - Relay</b>	
No. of Relay Output	5
Contact Rating	NO type; 5A @28V DC (Resistive) 5A @240V AC (Resistive)
Isolation	No
Response Time	10 ms

Communication	
Communication Port	RS485 [Slave] RS485 [Master] (Optional)
Communication Protocol	MODBUS RTU

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 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

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 (1k memory)
RTC	Yes (Optional)
Clock Data Retention	Yes
Clock Drift	±15.6 minutes per year

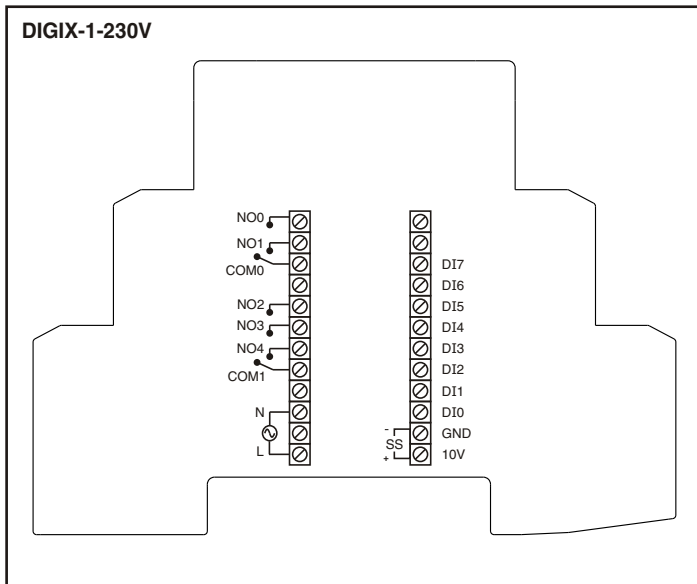
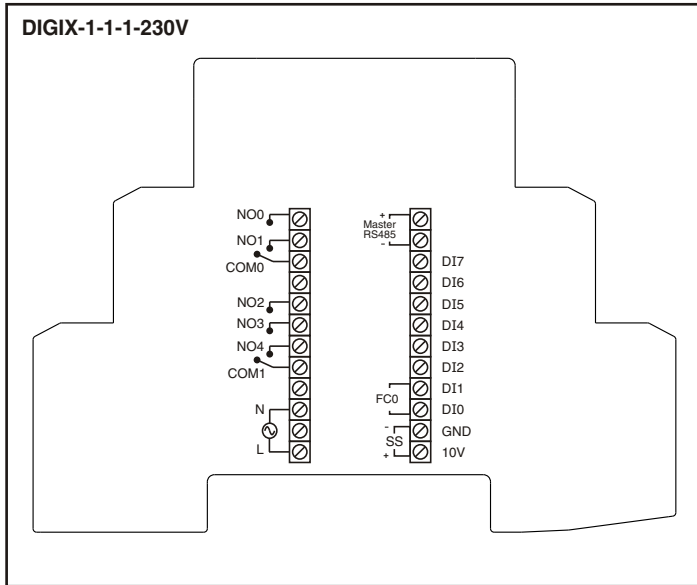
  

Supply Specification	
Supply Voltage	230V AC (180 - 270V AC)
Power Consumption	6VA Max.
Sensor Supply (SS)	10V, 50mA

Dimensions (All dimensions are in mm)	

## Terminal Connections



## Ordering Information

Order Code	Description
Digix-1-1-1-230V	Digital Input: 8, Digital Output: 5, RTC, RS485 (Master)
Digix-1-230V	Digital Input: 8, Digital Output: 5

### Accessories (To be ordered separately)

Communication cable	ACH-004 (6 pin to 6 pin RJ25 jack) AC-IOEXP-02 (Port expansion adapter)
<b>Converters</b>	
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