

PRELIMINARY  
DATASHEET

## Features:

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

## Technical Specifications

### Display

Display	2 line X 8 characters LCD
No. of keys	5 keys

### Input Specifications

Digital Input	
No. Of digital input	8
Input Type	PNP
Input Voltage Range	7-16V DC [abs. max.: 30V DC]
Response Time	Programmable upto 1 to 255ms from Front End (Default 10ms)(Also depends on ladder execution time)
Isolation	2.5kV
Timer Accuracy	0.1% or 2ms (Whichever is greater)
Fast Counter Input	
Input Type	PNP

### Output Specifications

Digital Output - Relay	
No. of Relay Output	5
Contact Rating	NO type; 7A resistive@230V AC / 28V DC
Isolation	2.5kV
Response Time	10 ms

### Communication:

Communication Port	RS485 port [slave]
Communication Protocol	MODBUS RTU

### Functional Specifications:

Programming Method	Windows based software for ladder programming and HMI configuration.
Memory	Data memory: 8 kbytes Code memory: 112 kbytes
Max. no. of Objects	2000 (As per memory)
Minimum Scan Time	200 $\mu$ sec
Typical Scan Time	1 ms

### Environmental Specifications

Temperature	Operating : 0 to 55°C Storage : -40 to 70°C
Humidity (non-condensing)	10% to 95% RH

### Mechanical Specifications

Mounting	Din rail mount
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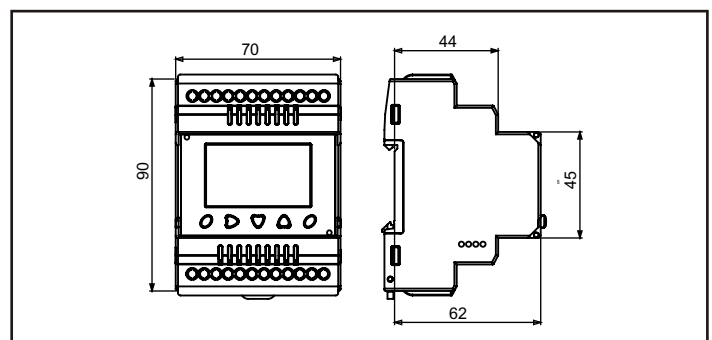
### Functional Features

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 (2k memory)
RTC	Yes
Clock Data Retention	3 Years (lithium battery) at 25°C
Clock Drift	$\pm$ 15.6 minutes per year
Timer block accuracy	Max 3ms

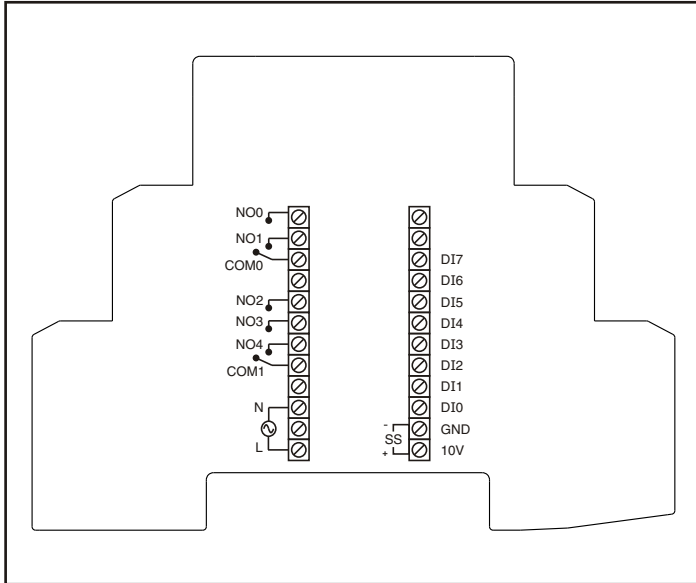
### Supply Specification

Supply Voltage	230V AC (100 - 270V AC)
Power Consumption	3.2VA Max.

### Dimensions (All dimensions are in mm)



### Terminal Connections



### Ordering Information

Part No.	Order Code
Digix-1-230V	Digix-1-230V

#### 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