DIGIX-B



70 x 90 x 66.4mm

Features :

- **Windows based user friendly software for ladder programming & HMI configuration**
- **RS485 based communication with MODBUS RTU protocol**

Technical specifications

Display specifications	
Display	LED indication for power ON, I/O's & communication status
No. of keys	NA
Input specifications	
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	5Khz
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	20msec
Mechanical life	30000 cycles
Communication specifications	
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
Stop bits	1 or 2
Settable slave	1 - 255

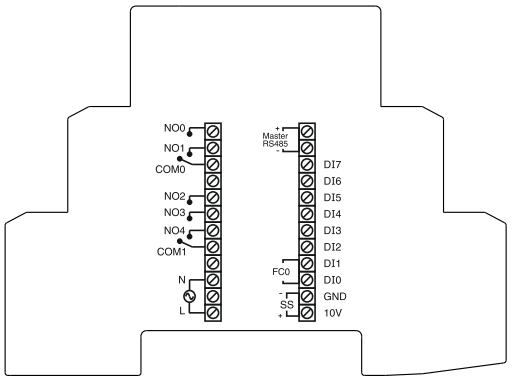
Functional specifications	
Programming method	Windows based software for ladder programming and HMI configuration
Memory	Data memory: 16kB Code memory: 112kB EEPROM memory: 1kB
Max. no. of objects	2000 (as per memory)
Minimum scan time	200 µsec
Typical scan time	2ms (based on ladder scan time)
Environmental specifications	
Operating temperature	0 °C to 55 °C
Storage temperature	-20 °C to 70 °C
Humidity (Non-condensing)	10% to 95% RH
IP rating	IP50 on display
Mechanical specifications	
Mounting	DIN Rail mount
Weight	Approx 240 gm
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 (1kB)
RTC	NA
*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 @ 110V, @ 24VDC	

Accessories (To be ordered separately)

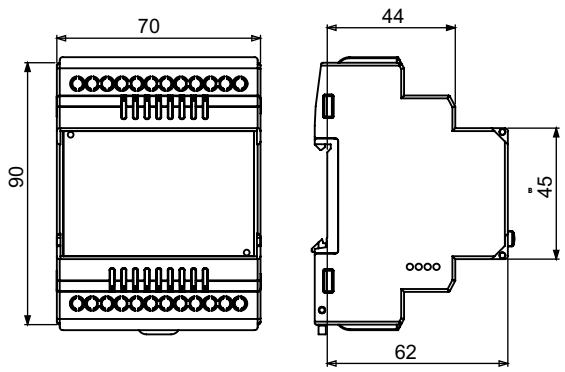
Downloading cable	AC-USB-RS485-03
Power supplies	RPS60-24-CE-RoHS
Networking	ACH-004 (RJ25 Cable)
	AC-IOEXP-03 (Expansion Adaptor)
	AC-USB-RS485-02 (USB to RS485 Cable)
Power supplies	RPS60-24-CE-RoHS
Relay modules	
1) RLYMD-1-S4-1CO-24VDC	4 Channel 1 change over relay module
2) RLYMD-1-S4-2CO-24VDC	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

Terminal connection

DIGIX-1-0-0-24VDC-B



Dimensions (in mm)



Port description

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

Ordering information

Product code	Description	Certification
DIGIX-1-0-0-24VDC-B	PLC – 8DI, 5RO & 24VDC – Without display	CE RoHS in process