

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 RTU protocol
- Serial printing

Certifications : (€

Technical specifications

Display specifications	2 v 8 characters I CD (groon backlight) / I ED indications for inputs and outputs		
Display No. of kove	2 x 8 characters LCD (green backlight) / LED indications for inputs and outputs		
No. of keys	5 keys (4 - user configurable)*		
Input specifications			
Digital input			
No. of digital inputs	8 (including fast channel input)		
Input type	PNP		
Input voltage range	6 - 30V DC		
Response time	Typical 2msec (based on ladder scan time) & 100 µsec for fast input		
Isolation	No		
Debounce time	0 to 255msec (default 10msec)		
Timer accuracy	0.1% or 2msec (whichever is greater)		
Fast input			
No. of channels	1		
Frequency	5Khz		
Output specifications			
Digital output - relay			
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 endurance	5 x 10 ⁶		
Communication specifications			
Communication port	RS485 [Slave] RS485 [Master]		
Communication protocol	MODBUS RTU		
Connector	RJ25 (slave) screw terminal (master)		
Supported expansion*	EXP FLEX 2M		
Transmission mode	Half duplex		
Transmission 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		



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PLC - Compact Series

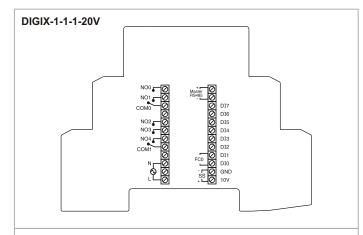
Functional specifications		
Programming method	Windows based software for ladder programming and HMI configuration	
Memory	Data memory: 16 kB Code memory: 112 kB EEPROM Memory: 1 kB	
Max. no. of objects	2000 (as per memory)	
linimum scan time	200 µsec	
ypical scan time	2ms (based on ladder scan time)	
nvironmental specifications		
perating temperature	0 °C to 55 °C	
Storage temperature	-20 °C to 70 °C	
Humidity (Non-condensing)	10% to 95% RH	
rating	IP50 on display	
lechanical specifications		
lounting	DIN Rail mount	
Veight	Approx 240 gm	
unctional features		
imer operational modes	On delay, Off delay, Pulse, Special [Up/Down] Timer, 1ms Timer*	
imer resolution	1ms (Accurate only for 1 msec Timer block)	
Counter	Up counter, Down counter, Up/Down counter, Special [Up/Down] counter	
Other blocks	Analog input, FTC, PID, Rampsoak	
lemory retention	10 years (1kB)	
TC	Yes (available in DIGIX-1-1-1-230V)	
TC Accuracy	8 Minutes / Year & the maximum error is 14 Minutes / Year	
lock drift	Max 4sec / day	
Jsage limited to only 4 nos		
uxiliary supply specification	on	
upply voltage	90 to 270V AC 50/60 Hz., 18 to 30V DC	
ower consumption	6W max	
ource	10V, 50mA in 230V AC model only	

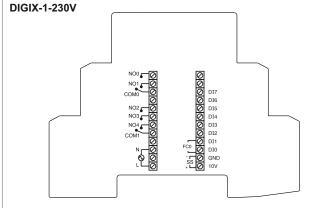
Accessories (To be ordered separately)

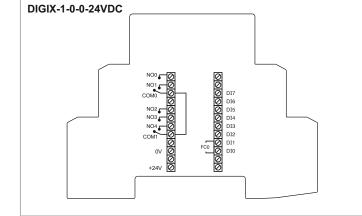
Downloading cable AC-USB-RS485-03	
Power supplies	RPS60-24-CE-RoHS
Relay modules	<u>'</u>
1) RLYMD-1-S4-1CO-24VDC	4 Channel 1 change over relay module
2) RLYMD-1-S4-2CO-24VDC	4 Channel 2 change over relay module
3) RLYMD-2-S8-1CO-24VDC	8 Channel 1 change over relay module
4) RLYMD-2-S8-2CO-24VDC 8 Channel 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)

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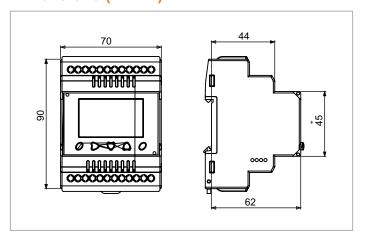
Terminal connection







Dimensions (in mm)



Port description

Port 1 (6 Pin Jack)			
Description			
RS485 Slave +ve			
NC			
RS485 Slave -ve			

Ordering information

Product code	Description	Certification
DIGIX-1-1-230V	PLC – 8DI, 5RO & 230VAC –RTC and modbus expansion	C € Madis
DIGIX-1-230V	PLC – 8DI, 5RO- 230VAC	C € Name
DIGIX-1-0-0-24VDC	PLC – 8DI, 5RO- 24VDC	C € ♠ in process

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