

Technical Datasheet Input / Output Modules with Modbus RTU Protocol with Ethernet Interface

The IO module communicates via Ethernet Interface. The module is designed to allow interface with other Modbus TCP/IP compatible devices. The module acts as an input/output device between the Modbus TCP/IP Network and the Gateway.

Digital IO module is sturdy, low power usage and easy to use.

8 Port DI and 8 Port DO Module with Modbus TCP Ethernet: -



The IO modules enclosures are DIN rail Mountable. It's a closed Enclosure with openings for connectors and LED indicators.

The design of the modules incorporates '**resettable Fuses**' to safeguard against reverse polarity connection both for **Power** and **Communication** port. LED indicators for each of the IO ports as well as for the module Power.

Specifications

General –

I/O Connectors	2 Pin 5.08 mm screw Terminal Blocks with max 2.5 sq mm cable size.
Dimensions	110 mm B x 110 mm L x 50 mm H
Power	Input Power – 12 – 24 VDC or 24 V AC/DC Typical – 12V DC @ 500mA

Operating Temperature 0 – 60° C (32 ~ 140°F)
Storage Temperature -20 - 70° C (-4 ~ 158°F)
Storage Humidity 5 ~ 95 % RH, non – Condensing

Certifications

Relay Output –

Channels 8
Contact Form 1A, 1C
Contact Material Ag Alloy
Contact Capacity 10A @ 240VAC, 10A @ 28VDC
Coil Voltage 5 – 48 VDC
Coil Power 0.36 W
Insulation Resistance 250MΩ
Electrical Life 1 x 10⁵
Mechanical Life 1 x 10⁷
Operating Time 7 msec, Max 15 msec
Release Time 2 msec, Max 6 msec

DI Inputs –

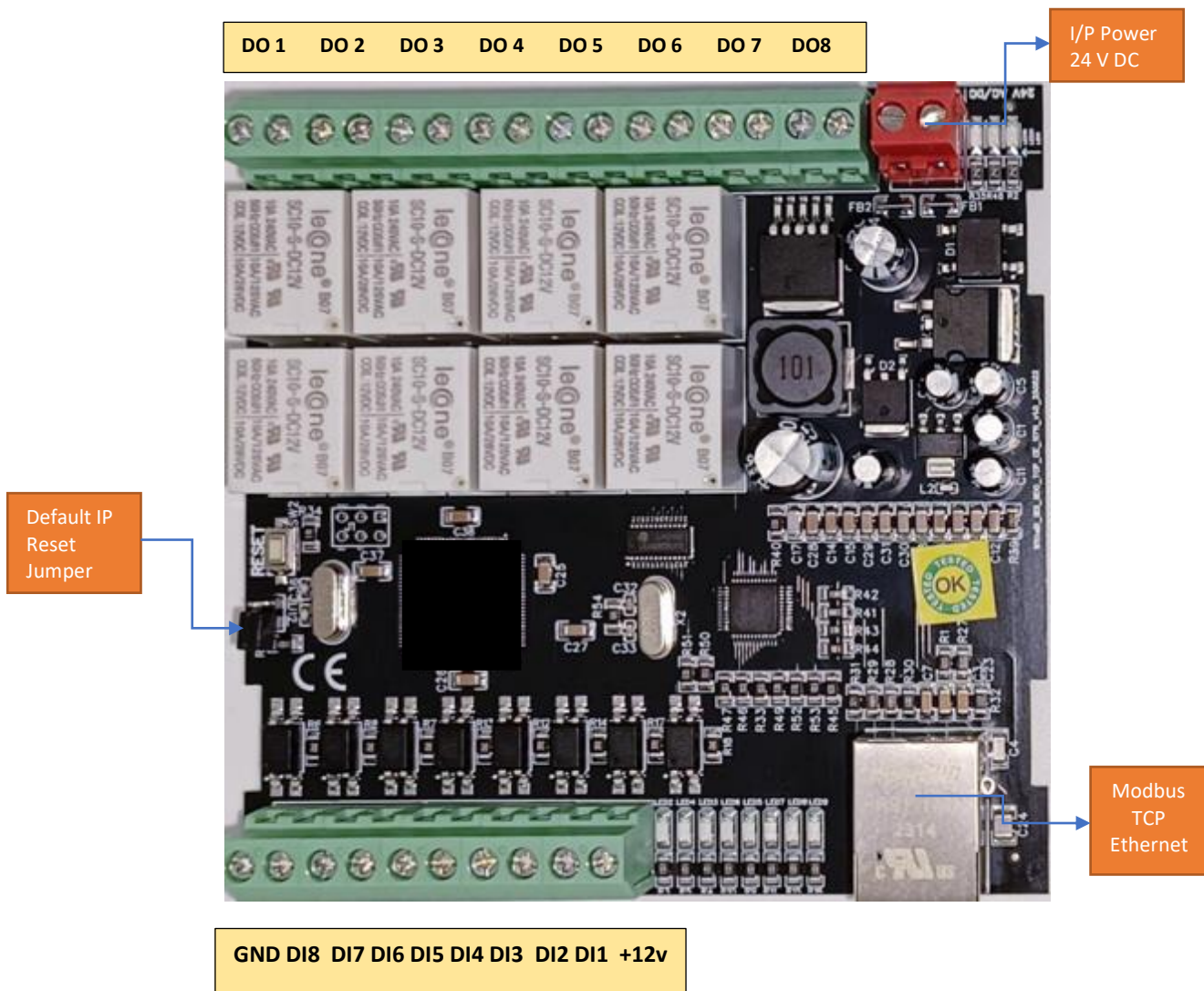
Channels 8
Sense Voltage 3.3 – 30 VDC
Sense Logic Logic '0' = <1 VDC, Logic '1' = >3.3 VDC
Isolation Optically isolated
Response Time 2 msec, Max 6 msec

Configuration Settings –

Communication Speed 10/100 Base-T Ethernet compatible Interface
Data Bits 8
Parity None
Stop bit 1
CRC Yes
Slave ID Configurable over web interface
Function code DO 0x05 and 0x0F (5 Single coil & 15 multiple coil)
DO Register Address 1,2,3,4,5,6,78
Function code DI 0x02 Read Discrete Input

DI Register Address 9,10,11,12,13,14,15,16.

ID	Function Description	Register Description	Modbus Function Code	Protocol	Data Type
1	DO 1	00001	0X05,0X0F	TCP/IP	1 Bit Boolean
2	DO 2	00002	0X05,0X0F	TCP/IP	1 Bit Boolean
3	DO 3	00003	0X05,0X0F	TCP/IP	1 Bit Boolean
4	DO 4	00004	0X05,0X0F	TCP/IP	1 Bit Boolean
5	DO 5	00005	0X05,0X0F	TCP/IP	1 Bit Boolean
6	DO 6	00005	0X05,0X0F	TCP/IP	1 Bit Boolean
7	DO 7	00007	0X05,0X0F	TCP/IP	1 Bit Boolean
8	DO 8	00008	0X05,0X0F	TCP/IP	1 Bit Boolean
9	DI 1(With & Without Potential)	10001	0x01	TCP/IP	1 Bit Boolean
10	DI 2(With & Without Potential)	10002	0x01	TCP/IP	1 Bit Boolean
11	DI 3(With & Without Potential)	10003	0x01	TCP/IP	1 Bit Boolean
12	DI 4(With & Without Potential)	10004	0x01	TCP/IP	1 Bit Boolean
13	DI 5(With & Without Potential)	10005	0x01	TCP/IP	1 Bit Boolean
14	DI 6(With & Without Potential)	10006	0x01	TCP/IP	1 Bit Boolean
15	DI 7(With & Without Potential)	10007	0x01	TCP/IP	1 Bit Boolean
16	DI 8(With & Without Potential)	10008	0x01	TCP/IP	1 Bit Boolean



Note – Configuration Guide is separately provided for the configuration of the module

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