

ioLogik E2212

Active Ethernet I/O Server with 8 DI, 8 DO, and 4 DIO



Features

- Selectable digital I/O combination by software
- Accepts PNP or NPN sensors
- Instant event reporting by TCP/UDP/e-mail/SNMP trap
- Easy local control without programming by patented Click&Go logic
- Windows VB and Windows/WinCE/Linux C API **Coming Soon!**
- Peer-to-Peer I/O without controller
- Power fail counter storage memory



: Introduction

Flexible digital input/output configuration within one Ethernet DIO

The ioLogik E2212 provides system integrators with the flexibility to handle various field demands with 8 fixed input channels, 8 fixed output channels, and 4 channels that can be configured by software for input or output operation. You can configure the I/O channels to suit your needs, for combinations such as 12 inputs/8 outputs, 8 inputs/12 outputs or 10 inputs/10 outputs.

Single Ethernet DIO that accepts 3 types of sensors

Unlike traditional Ethernet I/O products, the ioLogik E2212 can connect to dry contact, PNP, and NPN sensors at the same time. You may decide on the sensor type depending on your wiring approach.

: Specifications

LAN

Ethernet: 10/100 Mbps, RJ45

Protection: 1.5KV magnetic isolation

Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, SNMP(MIB for I/O and Network), HTTP, SNTP

Active I/O Messages: Yes

Security: IP-filtering

Serial

Interface: RS-485 (2-wire): Data+, Data-, GND

Serial Line Protection: 15 KV ESD for all signals

Serial Communication Parameters

Parity: None

Data Bits: 8

Stop Bit(s): 1

Flow Control: None

Speed: 1200 to 115200 bps

Protocol: Modbus/RTU

Power Requirements

Power Input: 24 VDC nominal, min. 12 VDC, Max. 48 VDC

DO Power: 24 VDC nominal, up to 30 VDC

Mechanical Specifications

Wiring: I/O cable max. 14 AWG

Environment

Operation Temperature: -10 to 60°C (14 to 140°F), 5 to 95% RH

Storage Temperature: -40 to 85°C (-40 to 185°F), 5 to 95% RH

Digital Input

Channels: 8 fixed points

Sensor Type: 2 6-point groups for NPN/PNP type

I/O Mode: DI or Event Counter (up to 900Hz)

Dry Contact: Logic 0: short to GND, Logic 1: open

Wet Contact: Logic 0: 0 to 3 VDC,
Logic 1: 10 to 30 VDC (DI COM to DI)

Common Type: 6 points /1 COM

Isolation: 3K VDC

Specifications

Low Speed Counter/Frequency: 900 Hz, power off storage

Over Voltage Protection: +36 VDC

Counter Memory: 48 Bytes

Digital Output

Channels: 8 fixed points sink, 48 VDC, 200 mA

Magnetic Isolation: 2 kVrms/3K VDC

Pulse Wave Width: 10 ms/100 Hz

Over Voltage Protection: +50 VDC

Over Current Limit: 600 mA (typical)

Over Temperature Shutdown: 160°C (min.)

DI/DO Selectable Channels

Channels: 4

I/O Mode: DI or Event Counter (Up to 900Hz)

DO or Pulse Output (Up to 100Hz)

Magnetic Isolation: 2 kVrms/3K VDC

Agency Approvals

EMI: FCC part 15, CISPR (EN55022) Class A

EMS: IEC 61000-4-2 (ESD), Level 2/3

IEC 61000-4-3 (RS), Level 2

IEC 61000-4-4 (EFT), Level 2

IEC 61000-4-5 (Surge), Level 3

IEC 61000-4-6 (CS), Level 2

IEC 61000-4-8 (PM), Level 1

IEC 61000-4-11 (DIP)

IEC 61000-6-2

IEC 61000-6-4 (EMC)

Safety: UL 508

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Warranty: 2 years

Pin Assignment

Power & RS-485

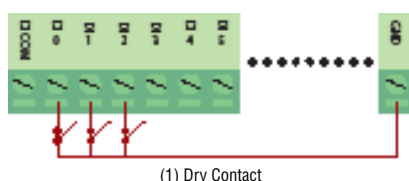
(Power Input)			(RS-485)		
1	2	3	4	5	6
V+ (12-48 V)	V-	FG	Data+	Data-	SG

I/O (left to right)

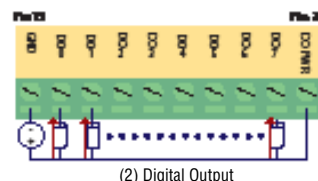
1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18	19	20	21	22	23	24
DI COM1	DI 0	DI 1	DI 2	DI 3	DI 4	DI 5	DI COM2	DI 6	DI 7	DI 8	DI 9	DI 10	DI 11	GND	DO 0	DO 1	DO 2	DO 3	DO 4	DO 5	DO 6	DO 7	DO PWR

Wiring Example

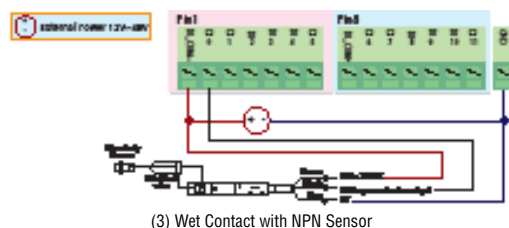
Digital Input (Dry Contact)



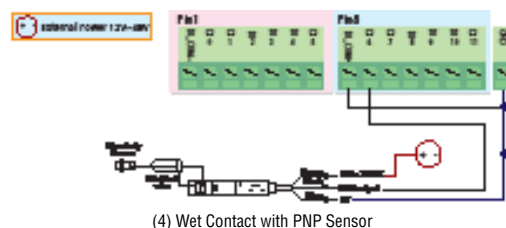
Digital Output



Digital Input (Wet Contact)



Digital Output



Ordering Information

ioLogik E2212: Active Ethernet I/O server

LDP1602: LCD module with 16 x 2 text and 5 button