



External IP relay - 2 outputs, 2 inputs, HTTPS support, PoE

The X-401™ is an exciting component in our most advanced series of products. It is a robust, full-featured, web-enabled, mini Ethernet I/O module with two 3-Amp relays and two optically-isolated digital inputs plus all of the advanced features from our 400-series products. It has non-volatile memory for logging, a real-time clock with support for NTP (time server) synchronization and an advanced scheduler which can be used to turn on/off relays at preset times. Its web-based user interface means it can be used right out of the box with no programming required. The X-401™ has many advanced features including a simple firewall, the ability to initiate a connection to remote servers, BASIC programming, SNMP, email alerts, peer-to-peer communications, internal monitoring, and more. The X-401™ is ideal for many applications, including security, remote control, street sign controllers, shift bell controllers, and much more.

Features:

- 2 Electro-mechanical relays
- Two optically-isolated digital inputs
- Peer-to-peer communications between 4xx Series modules which provides seamless I/O sharing
- User Permissions: Admin, Manager, User
- Programmable tasks for scheduled events or conditional logic
- Send email alerts based on user-defined conditions (supports encrypted email servers, such as Gmail)
- Real-Time Clock with NTP server synchronization
- Automatic daylight savings and leap year adjustment
- Customizable web-based Control Page
- BASIC script support for advanced flexibility
- Configurable logging
- Graphing (logged data)
- HTTPS/TLS encrypted
- Static or DHCP IP address configuration
- Modbus, SNMP, Remote Service, IP Filtering
- No software required
- Removable 14-Terminal connector for easy installation
- Rugged DIN-Rail/wall-mountable enclosure

Variants



Technical Parameters

Power supply

Voltage	POE and/or 9-28 VDC
Current	233mA Max

Relays

Number of Relays	2
Max Voltage	28VAC, 24VDC
Max Current	3A
Contact Type	SPDT (Form C)
Load Type	General Purpose
Contact Resistance	< 50 milliohms initial
Contact Material	AgSnO2
Electrical Life	100K cycles (Typical)
Mechanical Life	10M cycles (Typical)
Environmental Rating	Over voltage Category II, Pollution Degree 2
Relay Modes	ON/OFF or Pulsed
Pulse Timer Duration	0.1 to 86,400 Seconds (1-day)

Digital Inputs

Number of Inputs	2
Type	Optically-Isolated
Voltage Range	4-26VDC X-401-I: 4-26VDC
Current	950uA @ 4V, 8.5mA @ 26V
Minimum Hold Time	20ms
Input Functions	Monitor State, Control Relays, Control Remote Relays, Scalable Counter, On Timer, Total On Timer, Frequency
Maximum Count	24-bit
Max Count Rate	200 Hz (Dependent on Configuration)
Edge Trigger	Rising, Falling or Both

Real-Time Clock

	Manual or NTP(Network Time Protocol) setup
NTP Sync Period	Once, Daily, Weekly, On Power-up Auto Daylight Savings Adjustment Battery (capacitor) Power Backup

Capacitor Power Backup

Backup Functions	Retain Real-Time Clock, 1 Register, 2 Counters, 2 Relay States
Backup Duration	2 week minimum

Network

Type	10/100 Base-T Ethernet Port
Static	default (192.168.1.2) or DHCP IP address configuration

Connectors

Power/Relays/Inputs	14-Position, 3.81mm, Removable
Network	8-pin RJ-45

LED Indicators

	Power on, Relay coil energized 1-2, Digital inputs 1-2, Network linked, Network activity
Number of LEDs	7

Physical

Operating Temperature	-40°F to 150°F (-40°C to 65.5°C)
Size	1.41in (35.7mm) wide × 3.88in (98.5mm) tall × 3.1in (78mm) deep (not including connector)
Weight	5 oz (142 grams)
Enclosure Material	Lexan 940 Polycarbonate Plastic
Enclosure Flame Rating	UL94 V0

Protocols

HTTP, HTTPS, SSL, XML, Modbus TCP/IP, SNMP, SMTP, Remote Services

Logging

Log File Size	3,072-Kbyte (up to 50,688 logs)
Storage	Nonvolatile Flash
Buffer Architecture	Circular Buffer
	Log data can be periodically stored on a computer via FTP or email

Advanced Features

Task Builder
BASIC interpreter
Remote services

Password Settings

Password Length	6-18 Characters
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Electromagnetic Compliance

IEC CISPR 22, CISPR 24
EU EN55024, EN55022
X-401-E: FCC 47CFR15 (Class A)

Product Safety Compliance

IEC 61010-1

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