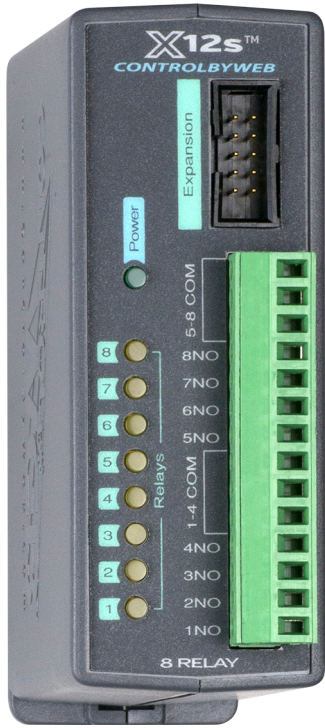## PRODUCT OVERVIEW

The X-12s™ 8-Relay expansion module is used with the X-600M controller. The X-12s has eight relays, each with Form-A contacts (SPST). A removable terminal connector provides connections to the relays.

One or more X-12s expansion modules can be connected to a X-600M controller with a ribbon cable.

The ribbon cable provides both power and communications to the expansion modules.

The X-600M is a multifunction web-enabled industrial I/O controller. It performs control, logic, and monitoring functions similar to that of a Programmable Logic Cont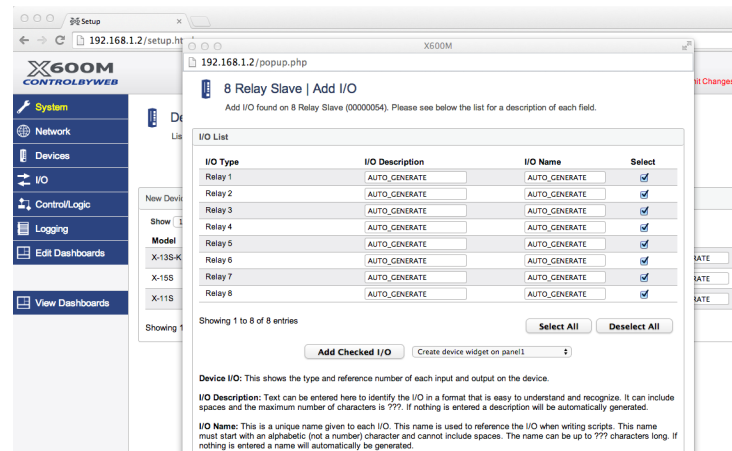roller (PLC). However, unlike a PLC, the X-600M is designed for web-based applications from the ground up. No add-on software or hardware is required.

The X-600M can be fully configured, programmed and tested using its built-in web server. The web setup pages are intuitive and easy to use and do not require special programming skills.
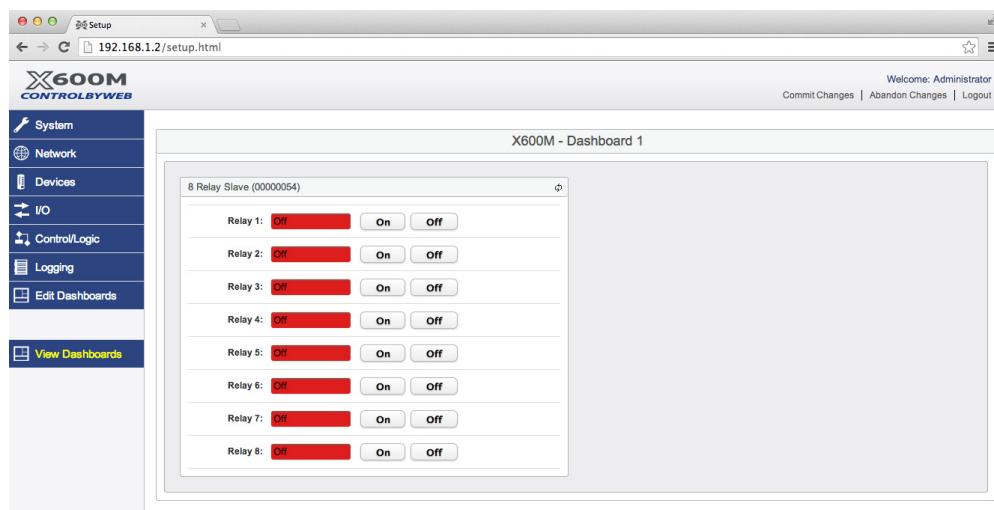
The X-600M together with expansion modules such as the X-12s provide an easy, flexible and reliable way to monitor and control systems and devices over a network. The X-12s is suitable for use with moderate loads such as solenoid valves, alarms and indicator lights.

Features:

- Eight SPST relays (125VAC, 30VDC @ 2.5A) independently controlled
- Removable connector
- Eight relay LEDs
- Removable terminal connector
- Powered through expansion bus
- Great for moderate-load applications including:
    - Solenoid valves
    - Alarms
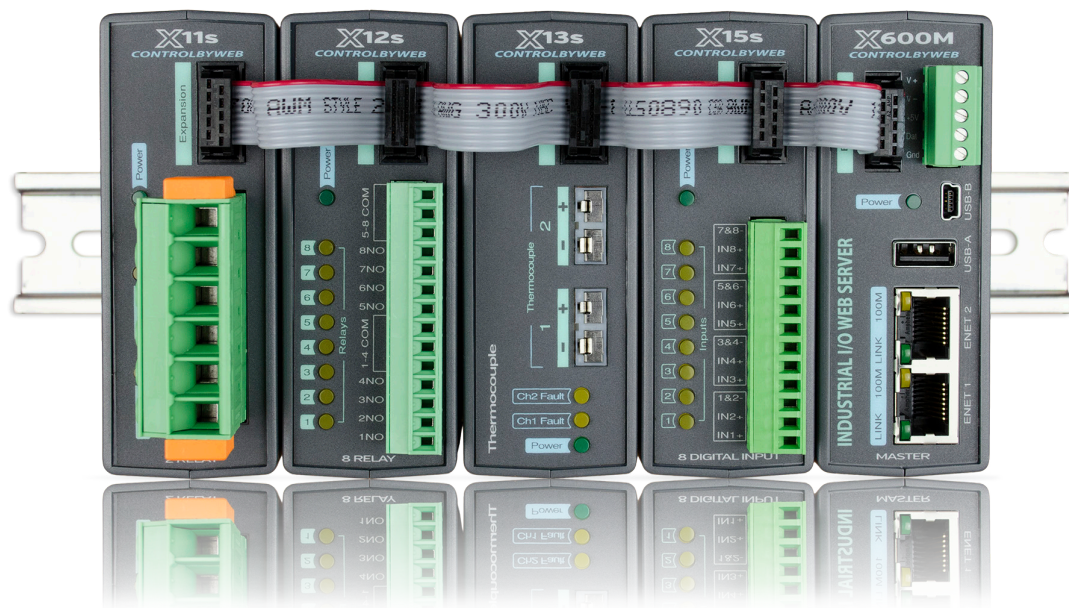   - Indicator lights
    - and much more...

Adding the X-12s on the X-600M

View X-12s components on the X-600M's Dashboard

Applications

- ✓ **Solenoid Valves**
- ✓ **Alarms**
- ✓ **Indicator Lights**
- ✓ **More...**

Expansion Modules With The X-600M Controller

Models:

- X-12s

Power Requirements

- Voltage: 9-28 VDC (supplied via the X-600M controller, 24V recommended)
- Max Current: See table below for typical values at 25°C.

Power Supply	All Relays OFF	All Relays ON
9 VDC	16 mA	344 mA
12 VDC	12 mA	258 mA
24 VDC	7 mA	133 mA

Relay Contacts

- Number of Relays: 8
- Max Voltage: 125VAC, 30VDC
- Max Current: 2.5A (total for each group of 4 relays with shared commons)
- Contact Type: SPST (Form 1A)
- Load Type: General Purpose
- Contact Resistance: < 100 milliohms initial
- Contact Material: AgSnO2
- Electrical Life: 100K operations (Min)
- Mechanical Life: 5M cycles (Min)
- 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)

Connectors

- Relays: 14-Position, 3.81mm, Removable
- Expansion Connector: Ribbon cable, 10-conductor, polarized, 2x5-position, 0.100" pitch Provides power and communications for expansion modules (Communications: RS-485)

LED Indicators

- Number of LEDs: 9
  - Power on
  - Relay coil energized 1-8

Physical

- Size:
  - 1.41in (35.7mm) wide
  - 3.88in (98.5mm) tall
  - 3.1in (78mm) deep (not including connector)
- Weight: 4.8 oz (136 g)
- Enclosure Material: Lexan 940 Polycarbonate Plastic
- Enclosure Flame Rating: UL94 V0

Environmental

- Operating Temperature: -40°F to 150°F (-40°C to 65.5°C)
- Storage Temperature: -40°F to 185°F (-40°C to 85°C)
- Humidity: 5-95%, non-condensing
- Altitude: Up to 2,000m
- Indoor use or NEMA-4 protected location

Electromagnetic Compliance

- IEC CISPR 22, CISPR 24
- FCC 47CFR15 (Class B)
- EN55024 ITE Immunity (2010)
- EN55022 Emissions (2010)

Product Safety Compliance

- UL 61010-1
- E468316-A1
- CSA-C22.2
- CCN: QUYX, QUYX7

CE

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