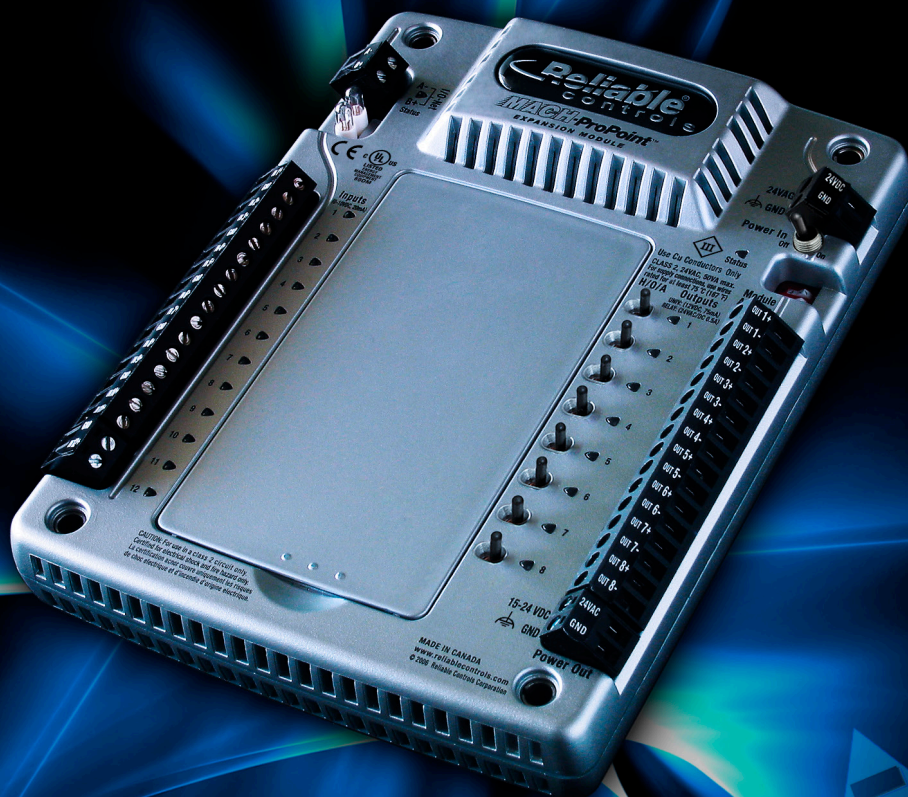




MACH-ProPoint™
IO-U Expansion Module

Modular, flexible I/O

Add modular inputs and outputs to any MACH-Pro, MACH-ProWeb or MACH-Pro2 series controller with this flexible, general purpose expansion module with universal I/O



5 year
Warranty



Member of
BACnet
International



Better by design

www.reliablecontrols.com/MPPIOU

TECH SPECS

Supply Voltages

- 24 VAC $\pm 10\%$ 75 VA max. 50/60 Hz
- 24 VDC $\pm 10\%$ 23 W max.

Communications

- Dedicated EIA-485 I/O-Net port for communications to host controller
- Baud fixed at 76.8 kbps

12 Universal Inputs

- 12-bit A/D converter
- Analog: 0–10 VDC, 4–20 mA, thermistor
- Binary: dry contact
- Impedance:
1 M Ω for 0–10 VDC range
250 Ω for 4–20 mA range
20 k Ω pull-up for thermistor/dry contact range
- Pulse counting up to 150 Hz (supports flow meters)
- 24 VAC over-voltage protection

8 Universal Outputs

- 12-bit D/A converter
- Analog: 0–12 VDC
- Binary: 0–12 VDC
- Manual ON provides adjustable 0–12 VDC (HOA only)
- LED indicator (glows proportionally)
- Output power: 75 mA @ 12 VDC
- 24 VAC over-voltage and short protection

Peripheral Power

- Onboard variable 15–24 VDC power supply providing up to 200 mA of DC power to peripheral devices (If powered with 24 VDC, the maximum voltage output is 22 VDC)

Wiring Terminals

- 12 to 22AWG (3.31 mm² to 0.33 mm²)
- Stranded or solid core
- Copper conductors only

Dimensions

- 17.9 cm L x 13.7 cm W x 3.9 cm H (7" L x 5 3/8" W x 1 1/2" H)

Mounting

- #8 clearance holes on 15.6 cm L x 11.0 cm W (6 1/8" L x 4 5/16" W)
- Screw depth 25 mm (1")

Weight

- 0.46 kg (1 lb.)

Ambient Limits

- Operating: -20 °C to 55 °C (-4 °F to 131 °F)
- Shipping: -40 °C to 60 °C (-40 °F to 140 °F)
- Humidity: 10% to 90% RH non-condensing

FEATURES

Superior Design

- Status LED for each input and output point, glows proportional to voltage level
- Robust, 45° screw terminal
- Reversible door flips to conveniently show points list

12 Inputs

- Universal ranges
- Software configurable for analog or binary

8 Outputs

- Universal (no sockets)
- Software configurable for analog or binary

Mounting

- The MPP-IO-U conveniently mounts in the same enclosure as the host controller, or may be mounted at a distance in a separate enclosure in the same space

Certifications

- UL916 Listed
- CE

Warranty

- 5 years

ORDERING

MPP-IO-U

- MACH-ProPoint™ I/O expansion module with 12 universal inputs and 8 universal outputs

MPP-IO-U-H

- MPP-IO-U with HOA (Hand/Off/Auto) switches and potentiometer overrides for each output

ACCESSORIES

MP-DINRAIL

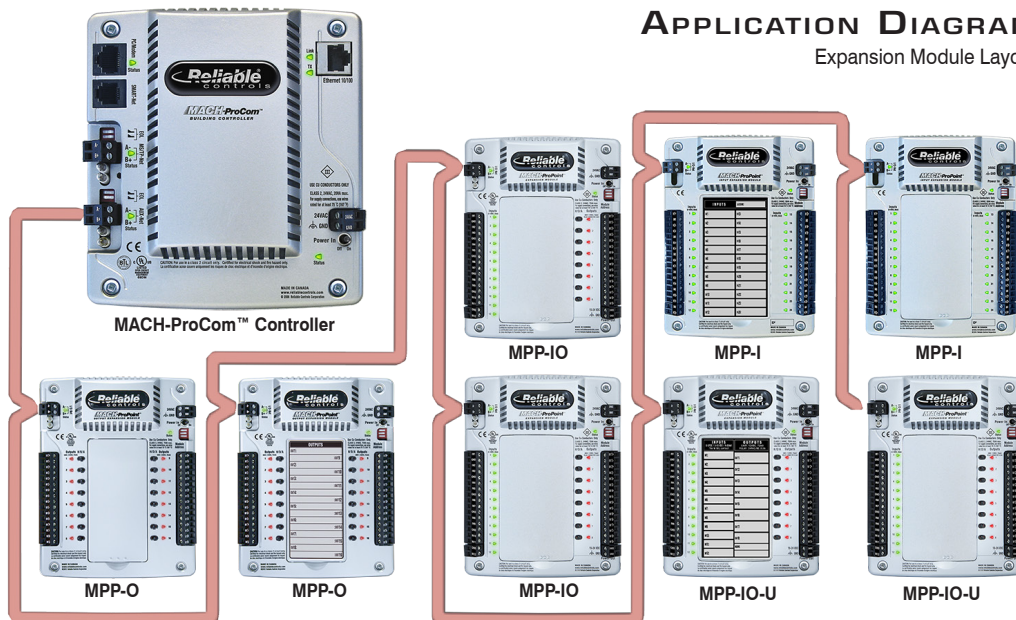
- Two-piece adapter kit to mount controller onto 35 mm x 7.5 mm top hat DIN rail. DIN rail not included

MPP-IO-DL

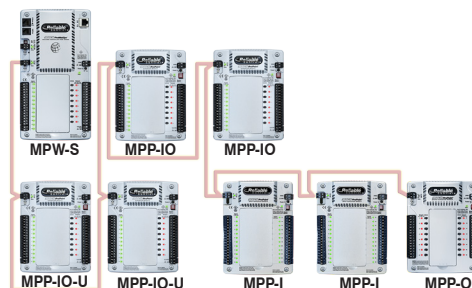
- Door label sheet for MP-S, MP-S-H, MPW-S, MPW-S-H, MPP-IO, MPP-IO-H, MPP-IO-U, and MPP-IO-U-H

APPLICATION DIAGRAM

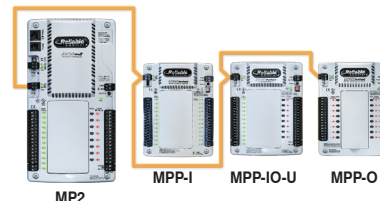
Expansion Module Layout



Up to 8 expansion modules can be daisy-chained to the AUX-Net port of a MACH-ProCom or MACH-ProWebCom controller in any combination.



Up to 7 expansion modules can be daisy-chained to the I/O-Net port of a MACH-ProSys or MACH-ProWebSys controller in any combination.



Up to 3 expansion modules can be daisy-chained to the I/O-Net port of a MACH-Pro2 controller in any combination.

Dealer Information: