Reliable® controls
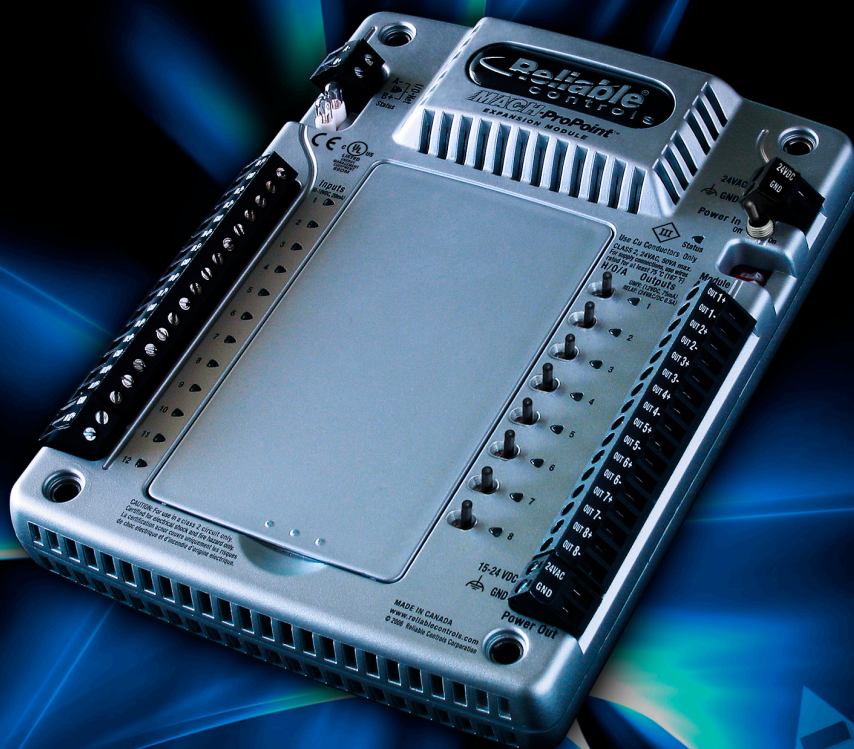
Modular, flexible I/O

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

5 year Warranty

Better by design

www.reliablecontrols.com/MPP

TECH SPECS

Supply Voltages
- 24 VAC ±10% 75 VA max. 50/60 Hz
- 24 VDC ±10% 23 W max.

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

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

Output Sockets
- Outputs 1–4 ship with empty sockets that accommodate any mix of output modules (sold separately)
- LED indicator (glows proportionally)

Universal Outputs
- Outputs 5–8 are universal
- Analog: 0–12 VDC
- Binary: 0/12 VDC
- Output power: 75 mA @ 12 VDC
- 24 VAC over-voltage and short protection
- LED indicator (glows proportionally)

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 per I/O, glows proportional to voltage level
- Robust, 45° screw terminal
- Reversible door flips to conveniently show points list

12 Inputs
- Universal ranges

8 Outputs
- Outputs 1–4 are wired to unpopulated sockets
- Outputs 5–8 are universal (no sockets)
- Output modules are sold separately

Mounting
- The MACH-ProPoint™ Input/Output 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
- MACH-ProPoint™ I/O expansion module with 12 universal inputs, 4 output sockets, and 4 universal outputs

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

MPP-IO-SMK
- MPP-IO approved for smoke control applications (see MPP-IO-SMK Submittal Sheet for details and options)

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, and MPP-IO-H

RM
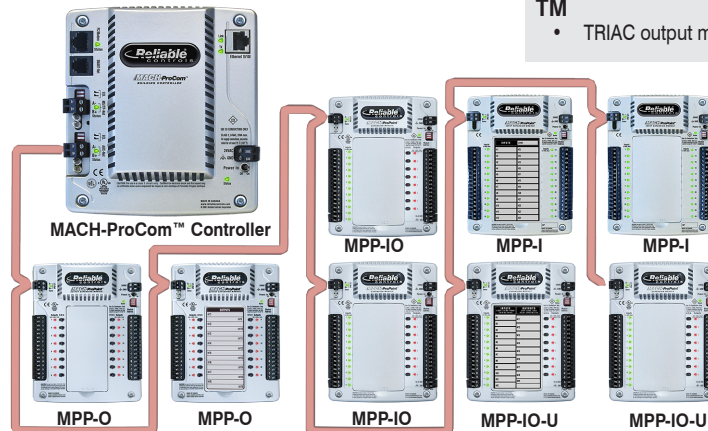- Relay output module (package of 10)

UM
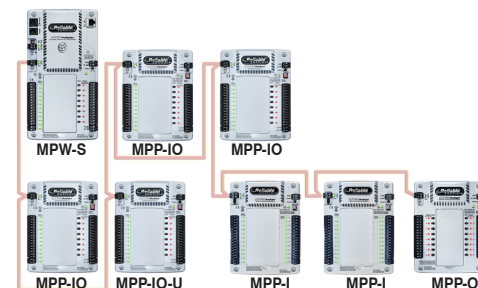- Universal output module (package of 10)

TM
- TRIAC output module (package of 10)
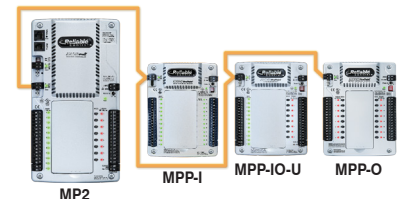
APPLICATION DIAGRAM
Expansion Module Layout

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:

Designed and Manufactured in Canada