

GENERAL DESCRIPTION

Increased input/output capability for the Envirotrak Multi-purpose Controller (ENV-MPC).

The Envirotrak ENV-MPC Expansion Modules are circuit cards that connect directly into any of the four option slots available on the ENV-MPC to provide increased input/output capability.



ENV-MPC-4CO Expansion Module

This module provides four SPDT contact outputs (with load override switches) and four contact inputs for status monitoring.

MODEL NO.: ENV-MPC-4CO (PART NO. 006018)

AGENCY LISTINGS: **UL-916** (Energy Management Equipment), **UL-873** (Temperature Indicating and Regulating Equipment), **UL-864** (Smoke Control System Sub-assembly), Canadian Standards Association (CSA). Complies with FCC Class "A" requirements.

CONTACT OUTPUTS: 4 SPDT, each with override switch and LED indicator. Position of override switch is monitored.

CONTACT RATINGS: (non-inductive); 3 amps @ 24Vac or Vdc; 1 amp @ 120Vac; 0.5 amp @ 240 Vac.

CONTACT INPUTS: 4 for status monitoring of dry contacts.

OPERATING ENVIRONMENT: 32 to 122°F (0 to 50°C), 5-85% RH (non-condensing).

POWER REQUIREMENTS: ENV-MPC-4CO derives all operating power from associated ENV-MPC. Separate transformer required for loads.

DIMENSIONS: 5" x 6.25"

WEIGHT: Net: 1 lb., 1/2 oz.

SHIPPING WEIGHT: 1 lb., 1 oz.



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MODEL ENV-MPC
EXPANSION MODULES
MULTI-PURPOSE CONTROLLER

ENV-MPC-4AO Expansion Module

This module provides four 0-15VDC or 4-20mA analog outputs for use with proportional actuators.

MODEL NO.: ENV-MPC-4AO (PART NO. 006019)

AGENCY LISTINGS: **UL-916** (Energy Management Equipment), **UL-873** (Temperature Indicating and Regulating Equipment.) **UL-864** (Smoke Control System Sub-assembly). Canadian Standards Association (CSA). Complies with FCC Class "A" requirements.

OUTPUTS: 4 analog outputs configurable for the following 0-15Vdc; 0-004 volt resolution (Minimum load resistance equals 500 ohm for output voltage range of 0-10VDC, 2K ohm for greater than 10 VDC), 4-20mA dc; 0.005 mA resolution (load resistance must be 500 ohm or less).

ANALOG OUTPUT ACCURACY: +/-1.0% of full scale.

OPERATING ENVIRONMENT: 32 to 122°F (0 to 50°C), 5-85% RH (non-condensing)

POWER REQUIREMENTS: ENV-MPC-4AO derives all operating power from associated ENV-MPC.

DIMENSIONS: 5" x 6.25"

WEIGHT: Net: 11 1/2 oz.

SHIPPING WEIGHT: 12 oz.



ENV-MPC-8AI Expansion Module

This module provides eight analog inputs that may be individually configured for use with 1000 ohm Balco or platinum temperature sensors, 0-11VDC inputs, 4-20 mA inputs, and status contact inputs.

MODEL NO.: ENV-MPC-8AI (PART NO. 006020)

AGENCY LISTINGS: **UL-916** (Energy Management Equipment), **UL-873** (Temperature Indicating and Regulating Equipment). **UL-864** (Smoke Control System Sub-assembly). Canadian Standards Association (CSA). Complies with FCC Class "A" requirements.

ANALOG INPUTS: 8 universal inputs individually configurable for any of the following:

1000 Ohm Platinum Temperature Sensor:

-40 to +240°F @ 0.1 °F resolution

(-40 to 115°C @ 0.06 °C resolution)

1000 Ohm Balco Temperature Sensor:

-28.6 to +240°F @ 0.1°F resolution

(-33.6 C to +115°C @ 0.06°C resolution)

0-11VDC: 0.005 volt resolution

4-20 mA: 0.01 mA resolution (externally powered)

CONTACT INPUTS: used for status monitoring of dry contacts.

OPERATING ENVIRONMENT: 32 to 122°F (0 to 50°C), 5-85% RH (non-condensing).

POWER REQUIREMENTS: ENV-MPC-8AI derives all operating power from associated ENV-MPC.

DIMENSIONS: 5" X 6.25"

WEIGHT: Net: 12 1/2 oz.

SHIPPING WEIGHT: 13 oz.



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ENV-MPC-8DO Expansion Module

This module provides eight solid-state (triac) outputs for start/stop, staging control, floating control, or pulse width modulation of load (ac only).

MODEL NO.: ENV-MPC-8DO (PART NO. 006021)

AGENCY LISTINGS: **UL-916** (Energy Management Equipment), **UL-873** (Temperature Indicating and Regulating Equipment), **UL-864** (Smoke Control System Sub-assembly). Canadian Standards Associates (CSA). Complies with FCC Class "A" requirements.

OUTPUTS: Eight triac controlled pilot duty 24VAC only, 12VA, (0.5 amp max.).

PULSE WIDTH

MODULATING OUTPUT ACCURACY:

+/-1.0% of full scale.

OPERATING ENVIRONMENTAL: 32 to 122°F (0 to 50°C), 5-85% RH (non-condensing).

POWER REQUIREMENTS: ENV-MPC-8DO derives all operating power from associated ENV-MPC. Each load: ac only 24V, 50/60 hz., 12VA max. Separate transformer required for loads.

DIMENSIONS: 5" x 6.25"

WEIGHT: Net: 12 1/2 oz.

SHIPPING WEIGHT: 13 oz.

ENV-MPC-SSR Expansion Module

This module provides eight solid-state relay (FET) outputs for start-stop, staging control, floating control, and pulse width modulation of ac or dc loads.

MODEL NO.: ENV-MPC-SSR (PART NO. 006022)

AGENCY LISTINGS: **UL-916** (Energy Management Equipment), **UL-873** (Temperature Indicating and Regulating Equipment), **UL-864** (Smoke Control System Sub-assembly). Canadian Standards Association (CSA). Complies with FCC Class "A" requirements.



OUTPUTS: Eight solid-state relays, 0-24 Vac or Vdc @ 24VA max. (1 amp) each. ON Resistance: 2 ohms max.

PULSE WIDTH

MODULATING ACCURACY:

+/- 1.0% of full scale.

OPERATING ENVIRONMENT: 32 to 122°F (0 to 50°C), 5-85% RH (non-condensing).

POWER REQUIREMENTS: ENV-MPC-SSR derives all operating power from associated ENV-MPC. Each load: 0-24Vac or Vdc, 24VA max. Separate transformer required for loads.

DIMENSIONS: 5" X 6.25"

WEIGHT: Net: 12 oz.

SHIPPING WEIGHT: 12 1/2 oz.



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ENV-MPC-2PO Expansion Module

This module provides two 0-15 psig pneumatic outputs for controlling pneumatic damper and valve actuators in building automation systems.

MODEL NO.: ENV-MPC-2PO (PART NO. 006023)

AGENCY LISTINGS: **UL-916** (Energy Management Equipment), **UL-873** (Temperature Indicating and Regulating Equipment), **UL-864** (Smoke Control System Sub-assembly). Canadian Standards Association (CSA) Pending. Complies with FCC Class "A" requirements.

OUTPUTS: Two 0-15 psig pneumatic output signals.

CAPACITY: 8 SCFH @ 15 psig.

AIR CONSUMPTION: Application - dependent. MPC-2PO is not a constant-bleed device.

SUPPLY AIR: 30 psig maximum.

RESOLUTION: +/-0.05 psi.

RECOMMENDED FILTRATION: 25-micron filter.

OPERATING ENVIRONMENT: 32 to 122°F (0 to 50°C), 5-85% RH (non-condensing).

POWER REQUIREMENTS: ENV-MPC-2PO derives all operating power from associated ENV-MPC.

DIMENSIONS: 5" x 6.25"

WEIGHT: Net: 12 1/2 oz.

SHIPPING WEIGHT: 13 oz.



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