



Direct-Coupled, ControlSet® Actuator (10 in-lb.)

Description and Application

This compact direct-coupled actuator controls small dampers in HVAC systems that require relatively high rotation speed and low torque. This **three-wire tri-state** actuator is designed for use with **floating** thermostats, controllers, or building automation systems. The actuator can rotate a damper **90° in 30 seconds** (@ 60 Hz). A minimum torque of 10 in-lb. is available over the 95° angular rotation (with an adjustable end stop).

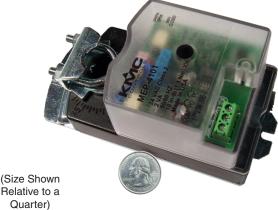
Under the translucent cover, LEDs indicate (energized) open and closed states for position indication and troubleshooting. When the actuator reaches the **end of rotation**, the motor is disengaged, and (after about five seconds) the appropriate **LED indicator illuminates**—green for "power open" (CCW) or red for "power closed" (CW). The LED remains on until:

- ◆ Power to the terminal is simply removed
- Power is switched to the other terminal, and the actuator starts turning again in the opposite direction

The actuator mounts directly on 1/4 to 5/8 inch (6 to 16 mm) round shafts or 1/4 to 7/16 inch (6 to 11 mm) square shafts, eliminating the need for expensive and complicated linkages. A gear disengagement button allows manual positioning of the actuator.

Features

- Quick damper opening and closing (30 seconds for 90° rotation @ 60 Hz)
- Under the translucent cover, LEDs indicate (energized) open and closed states for position indication and troubleshooting
- Adjustable end stop for min./max. position capability to allow adjustment of the design CFM flow into a zone
- Direct mounting to standard shaft sizes
- ◆ Gear disengagement button for easy set-up





Specifications

Supply Voltage 24 VAC (+20%/–15%), Class 2

Supply Power 2 VA

Control Signal Tri-state, 24 VAC

Frequency 50/60 Hz

Angular Rotation 0 to 95°, fully adjustable with

mechanical stop

Motor Timing 30 seconds for 90° @ 60 Hz;

36 seconds for 90° @ 50 Hz

Torque 10 in-lb. (1.1 N • m)

Mounting Direct on 1/4 to 5/8 inch (6 to

16 mm) round or 1/4 to 7/16 inch (6 to 11 mm) square shaft by adjustable "V" bolt; minimum recommended damper shaft length is 1-5/8 inches

Connections Wire clamp type; 14 to 22

AWG, copper

Dimensions $5.3 \times 2.6 \times 2.5$ inches

(135 x 66 x 63.5 mm)

Weight 1 lb. (0.45 kg)

Enclosure Flame-retardant plastic black

base and translucent cover

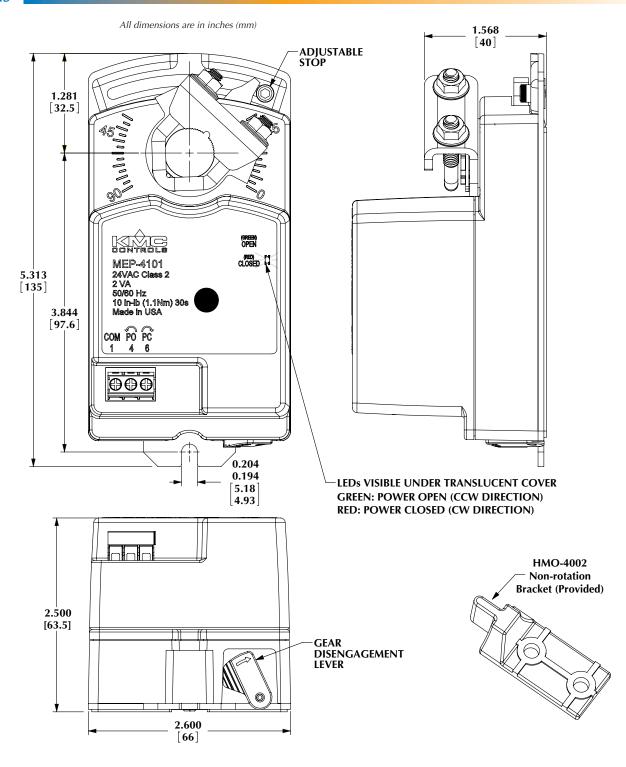
Noise Level < 35 dBA max. at 1 meter

Approvals SASO PCP Registration KSA

R-103260

Environmental Limits

Operating -22 to 140° F (-30 to 60° C)
Shipping -40 to 176° F (-40 to 80° C)
Humidity 5 to 95% RH (non-condensing)



Accessories

HCO-1151 Weather shield kit
 HMO-4001 Non-rotation "T" bracket
 HMO-4002 Replacement non-rotation bracket

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