

# 10260A Industrial Actuator

## Improve Your Bottom Line

To operate with maximum efficiency and improve process uptime, state-of-the-art control systems require accurate, responsive, and repeatable actuation of final control devices. Actuators are often overlooked when considering maintenance and ancillary support costs, yet they play an important role in system performance and can directly impact your company's bottom line.

Honeywell's 10260A medium-torque industrially rated rotary actuator is engineered for exceptional reliability, accurate positioning, and low maintenance. Designed for very precise positioning of dampers and quarter-turn valves in the power and processing industries, the 10260A performs especially well in extremely demanding environments requiring continuous duty, high reliability, and low maintenance. Typical applications include furnace pressure dampers, fuel/air ratio valves, windbox dampers, and coal mill dampers.

## Major Features and Benefits

### Responsive, Positive Electric Control:

Electric actuators provide instantaneous response to a demand signal, eliminating system non-linearity due to dead time. Additionally, because the actuator is electric, the costs associated with providing and maintaining a clean, dry air supply are eliminated.

### Non-Contact Position Sensing (NCS):

Non-contact position sensing eliminates maintenance problems and nuisance shutdowns that are common with slidewire or potentiometer position sensing. Once calibrated, the non-contacting position sensor requires no maintenance.

### True Position Indication:

Directly connected to the actuator output shaft, the non-contact sensor measures actual shaft position. This eliminates the hysteresis inherent with other means of position indication, giving tighter process control and allowing faster tuning.

### Slidewire Emulation Circuit (SEC):

A truly unique feature, slidewire emulation provides backward compatibility of three-wire position proportional control schemes while eliminating control and maintenance

problems associated with slidewire wear. The SEC provides the function of a slidewire but uses non-contact position sensing to determine shaft position.

### Accurate Positioning:

Precise positioning of the actuator is achieved through state-of-the-art motor control and positioning electronics. The motor starts and stops instantaneously, preventing overshoot and hunting. Positioning accuracy of 0.2% span or better is achievable for extremely tight process control.



### Self-Locking/Releasing Gear Train:

The worm gear output combination is self-locking and self-releasing and maintains position upon loss of power. It is designed to hold greater than two times the rated output torque in a back-driving condition. This design provides superior reliability without the maintenance associated with other self-locking and brake mechanisms.

### Closing The Loop:

To complement the 10260A actuator, Honeywell provides a compatible line of temperature and process controllers. The S9000 and UDC line of controllers, the Micromax™ 2 loop and logic system, and the UMC 800 multi-loop controller tightly integrate with Honeywell actuators to provide precise and reliable control of your process.

### Sales And Service:

This product is backed by Honeywell's global sales and service team, including the toll-free Technical Assistance Center (TAC) for after-sale support. For more information on this or other Honeywell products and services, please contact your local Honeywell representative, visit our Web site [www.honeywell.com/sensing](http://www.honeywell.com/sensing), or call 1-800-343-0228.

# Abbreviated Specifications

## Physical

Weight	40 lb. (18 kg) net				
Enclosure	Precision-machined aluminum alloy casting, finished in light gray powder coat epoxy.				
Mechanical stops	Backup to the CW and CCW end-of-travel limit switches.				
Operating Temperature	-30°C to +85°C (-20°F to +185°F)				
Relative Humidity	Fully operable over the range of 0-99% R.H. non-condensing				
Crank Arm	Adjustable radii (1 7/16" to a maximum of 5"). Position adjustable through 360° rotation. Optional 12" crank arm adjustable 0 - 12" radii.				
Rotation	90° between 0 and 100% on scale, limited by mechanical stops.				
Manual Handwheel	Provides a means of positioning the actuator in the event of a power failure or setup.				
Output Torque/Full Travel	<b>Model #</b>	<b>Torque</b>		<b>Output Shaft Speed sec/90°</b>	
Stroking Time		<b>Lb-ft</b>	<b>N-M</b>	<b>@ 60Hz</b>	<b>@ 50Hz</b>
	10261A	10	15	10	12
	10262A	20	27	20	24
	10264A	40	55	40	48
	10266A	60	80	60	72
	10267A	40	55	20	24
	10268A	80	110	40	48
	10269A	150	200	60	72
	10263A	200	270	40	48
	10265A	300	400	60	72

## Electrical

Power Input	120 VAC single phase, 50 or 60 Hz or 240 VAC single phase, 50 or 60 Hz		
Motor	100% duty cycle, instant start/stop, non-coasting, and non-burnout synchronous induction motor. Can be stalled up to 100 hours without damage.		
Motor Current	No load=full load=locked rotor		
	<b>Model No.</b>	120 V, 50/60 Hz	240 V, 50/60 Hz
	10261A, 62A, 64A, 66A	0.4 A (48 VA)	0.3 A (24 VA)
	10263A, 10265A	1.0 A (120 VA)	1.0 A (60 VA)
	10267A, 68A, 69A	0.8 A (96 VA)	0.3 A (36 VA)
Loss of Power	Actuator stays in place on loss of power		
Local Auto/Manual switch	Optional - provides local electrical operation with "out of auto" contact for annunciation		
Limit/Auxiliary Switches	Rated 10 A at 125 VAC, 5 A at 250 VAC – up to six total		
Direction of Rotation	Field-selectable via switch and jumper. Clockwise rotation - looking into the output shaft.		

## Actuator with Positioner

Input Range (CAT/PAT board)	Input: 4-20 mA, 1-5 VDC, 3-wire position proportional, ON/OFF
Fail-safe operation	If input falls below 2% of span, there are four choices selected by a movable jumper: stop, go full upscale, go full downscale, or go to a selected (adjustable) position.
Sensitivity	0.20% to 5% span adjustable. Shipped at 0.5% span
Hysteresis	Less than 0.4% of full scale
Linearity	± 0.25% of span
Repeatability	0.20% span

## 4-20 mA Output and Slidewire Emulation

Feedback signals	0/4 - 20 mA
	0/1 - 5 VDC with 250 ohm resistor (0 - 16 VDC with 800 ohm resistor)
Slidewire Emulation	Provides output voltage proportional to shaft position and to supply voltage (1-20 VDC) without a slidewire. Emulates 100 to 1000 ohm slidewire.

## Certifications

UL/CSA	Optional
CE Compliance	Optional
NEMA 4	Optional

**Honeywell**

## Sensing and Control

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