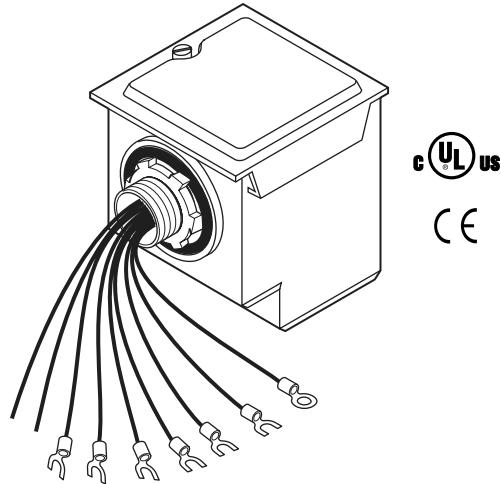


Electronic Actuator Drive

The CP-9301 and CP-9302 electronic actuator drives process a variable input signal from a controller to provide proportional control of an electric gear train actuator. The CP-9301 is preset at the factory for voltage input. The CP-9302 is factory preset for current input and has additional wiring for connection to an override switch, for those applications requiring an external override of the input signal. These drives are equipped with built-in jumpers and adjustable potentiometers, so that the type of input signal, deadband, input span, and start point may be reset in the field when necessary.

Features:

- Mounts directly onto Invensys proportional, electric, gear train actuators.
- Power is supplied directly from the actuator.
- Jumpers for selecting either voltage or current input, as well as 3% or 5% deadband.
- Adjustable span and start point potentiometers.



Part Number	Input Signal Override	Factory Jumper Settings				Jumper Settings		Potentiometer Adjustment Ranges					
		Input Signal	Deadband	Start Point	Input Span	Input Signal	Deadband	Input Span	Start Point				
CP-9301	Not Available	Voltage (6 to 9 Vdc)	3% of Input Span	6 Vdc	3 Vdc	Voltage or Current	3% or 5% of Input Span	3.0 to 16.5 Vdc or 8 to 16 mAdc	0 to 10 Vdc or 2 to 16 mAdc				
CP-9301-456		Voltage (0 to 10 Vdc)		0 Vdc	10 Vdc								
CP-9302	Available (Use is Optional)	Current (4 to 20 mAdc)		4 mAdc	16 mAdc								
CP-9302-702		5% of Input Span											

Typical Actuators.

Actuator Series	Power		Torque		Stroke Degrees	Spring Return	Internal Transformer ^a
	Vac 60 Hz	Amp	Lb-in.	N-m			
MP-2113-500	24	2.2	50	5.6	180	—	No
MP-361	24	2.5	50	5.6	180	CW	No
MP-371	24	2.5	50	5.6	180	CCW	No
MP-381	24	2.5	220	24.9	180	—	No
MP-9713	24	4.0	800	90.3	180	—	No
MP-465	120	0.5	50	5.6	180	CW	Yes
MP-475	120	0.5	50	5.6	180	CCW	No
MP-483	120	0.5	220	24.9	90	—	Yes
MP-485	120	0.5	220	24.9	180	—	Yes
MP-495	120	0.95	450	50.8	180	—	Yes
MP-9750	120	0.9	800	90.3	180	—	Yes
MP-4651	240	0.25	50	5.6	180	CW	Yes
MP-4851	240	0.25	220	24.9	180	—	Yes

^a Units with a "-2" suffix, e.g. MP-xxxx-xxx-2-x, include a built-in transformer (used for Microtherm® or with AE-504) with secondary leads wired externally to terminals 7 (Blue, 12 Vac) and 8 (Red, 24 Vac) of the actuator.

Caution: When using the CP-9301 or CP-9302 with actuators containing an *internal transformer*, disconnect and tape off the red and blue leads before installing and powering the device. Failure to do so can result in damage to the actuator drive.

Note: Models prior to "-2" suffix had transformer wired directly to potentiometer. To disconnect the transformer, remove the back plate of the actuator, then disconnect and tape the transformer leads.