

# MECH-ACT

## Gate Actuators



### Applications:

- ⊕ Radial gate hoist
- ⊕ Vertical gate Hoist
- ⊕ Screw gate hoist

### Areas of Application:

- ⊕ Canal gates in Remote Areas
- ⊕ Open channel regulator gates
- ⊕ Water Treatment Plants
- ⊕ Waste Water Treatment Plants

### Description:

**MECH-ACT** is specially designed gate actuators for operation of gates in remote locations having scarcity of electric power. MECH-ACT can be supplied with the new gates with hoist arrangement and even can be installed / retrofitted to existing gates. As the power requirement is drastically reduced it can operate on solar power, wind power with battery back-up. MECH-ACT can also work with Diesel Powered Gensets for heavy duty motors. Intelligent Controller has multiple interfaces (digital/ analog/ RS-485/ SDI-12/ MODBUS/PROFIBUS protocols) and interlocked local push buttons.

### Features:

- ⊕ Minimal power requirements
- ⊕ Can Work with DC motors, AC motors, 3 phase motors
- ⊕ Retrofitted to existing gates
- ⊕ Continuous Position monitoring
- ⊕ Limit switches (Hi & Low)
- ⊕ Interface with almost all RTUs
- ⊕ Local push-buttons for manual operation
- ⊕ RS-485, SDI-12, MODBUS Interface
- ⊕ Solar power operations
- ⊕ Upto 1000 Nm (100 Kg m ) Torque
- ⊕ Upto 20 RPM output speed
- ⊕ IP 65 Housing



## MECH AUTO Series

### Specifications:

Input power	48V/ 60VDC or 230V/415VAC
Input	Digital / Analog / SDI-12 Commands
Range	0-10 Mtr. Screw/ rope hoist
Resolution	10 mm or better
Torque	120 NM at motor end(Solar) 800 NM (Diesel Generator Input)
Output Torque Output Speed	Dependant on reduction gearing Upto 20 RPM
Controller	Microprocessor based solid state
Push Buttons	Open, Close, Stop
Programming	Field programmable from front panel Through RS-232 / RS-485 from PC
Indicators	Opening, Closing, Overload,
Limit switch input	Full open and Full close positions
Gate Position Sensor Display	Inbuilt mechanism with digital readout 20 x 2 LCD Alphanumeric with back lit
Internal Wiring	As per the requirement
Mounting	Suitable to site requirement
Environmental	
Op. Temp	-20 – 60°C
Humidity	0 -99% (non-condensing)
Accessories	Intelligent Controller Gate position measurement System Limit switches

### Ordering Information:

#### MECH- ACT-

<b>120</b>	Small Gates	
<b>320</b>	Large Gates	
-	<b>048</b>	48V DC input
	<b>060</b>	60 V DC input
-	<b>CUS</b>	Custom input AC 230 VAC/ 415 VAC
	<b>07</b>	4-20 mA Output
	<b>28</b>	RS-485 / RS-232 Interface
	<b>R</b>	Radial Gate
	<b>V</b>	Vertical gate
	<b>S</b>	Screw Type Gate



**MECHATRONICS**

Measurement & Control

Karan Plaza-1, Mumbai-B'lore Bypass highway,  
Near Rozari School, Warje Pune 52 (INDIA)

Ph. 91-20-25218371, 25218372 Fax 91-20-25218370

[www.mechatronicspune.com](http://www.mechatronicspune.com)

[support@mechatronicspune.com](mailto:support@mechatronicspune.com)