

# TEC2 Electric Actuator With Model 500

Intelligence Made Simple



# High Performance Digital Valve Control Made Easy



## TEC2

Proven EIM technology in electric actuation coupled with simplified digital controls, TEC2 is the next step in reliable high-performance digital valve control to make your work easier and safer.

Enhanced data-logging feature with time and date stamp features provide you with information to make effective and timely preventive maintenance decisions.

### TEC2 Key Benefits:

- Actuator size expanded range for small valves- new Model 500, smallest, lightest multi-turn actuator frame size
- Advanced configuration, diagnostics and predictive capability through DCMLink software platform with integration path to AMS Device Manager, Delta V, Emerson PlantWeb
- Ease of Use and Service - Multiple languages, improved graphical display, patented remote module
- Non-Intrusive design & rugged ductile iron gear housing is shock and vibration-resistant
- Non-penetrating, vibration-resistant Hall effect switches enable setup without opening control compartments
- Discrete, analog and digital controls availability
- Open network control for a wide range of topologies and protocols, including Modbus RTU, Profibus, FOUNDATION™ Fieldbus, DeviceNet™, Ethernet, HART™ and Wireless HART™

### TEC2\* Certifications:

- F.M., C.S.A., CE, IECEx, GOST, InMetro, CEPEL, AWWA C542, ATEX
- Shock & Vibration (MIL-STD-167-1, MIL-STD-901D)
- IP68 certified for submersible applications (50 ft, 7 days)
- SIL



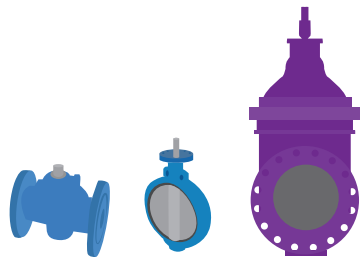
*\*Model 500 enclosure certification pending agency approval*  
*\*SIL approval pending*

## Model 500

In addition to an innovative control platform, TEC2 extends the proven and reliable mechanical frame family to include Model 500, the latest smaller and lightweight multi-turn actuator frame size designed to meet application needs requiring lower torque ranges. Model 500 offers full functionality, including increased stem acceptance of existing TEC actuators with a compact design and enhanced electronic features. It also comes with multiple display language options, data logging, Bluetooth™ and full network protocol support.

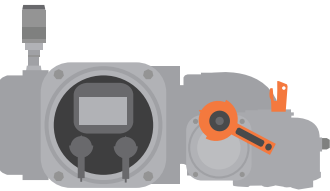


## More Flexibility And Reliability Through Innovative Product Design



**New Model 500.** More compact, lighter weight model with larger stem acceptance is ideal for smaller valves

Hall-Effect Torque Sensing Technology

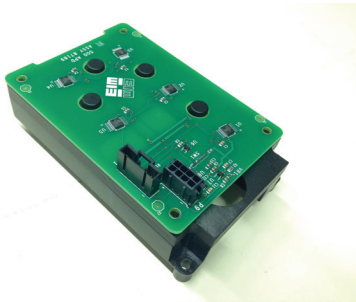


**Accurate torque sensing** using rotary Hall-Effect encoder directly connected to torque pinion is active in both motor and manual operation

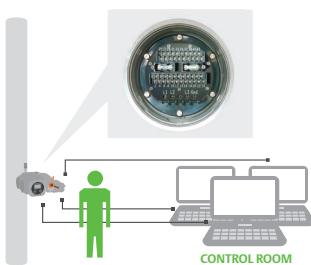


**Compact profile** Patented Remote Display Module puts local controls within easy access. Safely operate, configure or access diagnostics when actuator is hard or impossible to access

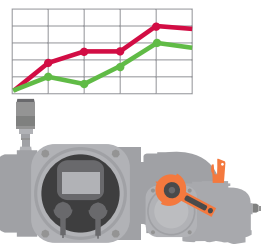
## Simplified Intelligence, When You Need It, Where You Need It



**Absolute Position Detector** provides precise valve position under all conditions including loss of power, no battery backup required

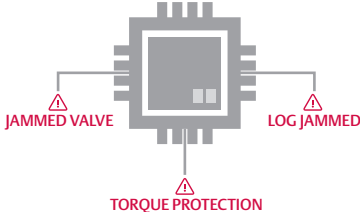


**Separate Terminal Chamber.** Dual sealed separate terminal chamber with highly legible terminal markings and pre-installed screws eases field wiring. Primary fuses accessible without opening controls compartments

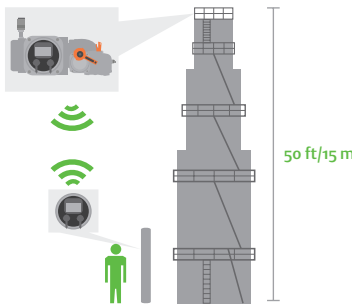


**Process trends measured and recorded.** Historical logs can reveal process trends to help with maintenance intervals and improve the timeliness of predictive maintenance enhanced with the use of DCMLink™ software

## Maximize Plant Efficiency And Worker Safety Every Time



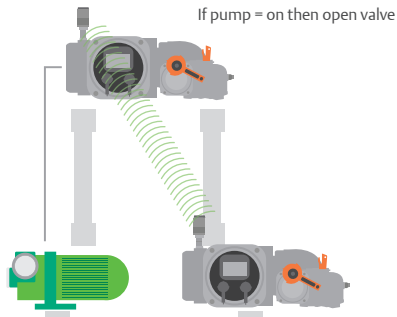
**Programmable monitoring.** Performance data can be monitored to fix current problems and recorded to analyze future issues



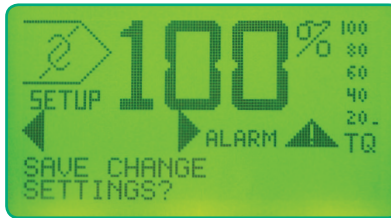
**Calibration and operation from a safe and convenient location.** Patented Remote Display Module (RDM) allows you to control and monitor the actuator up to 4000 ft (1.2 km) away. Ideal for hazardous environment



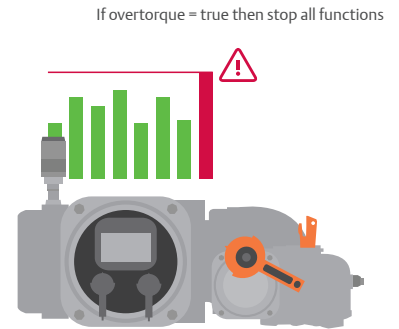
# Reliable Process Insight For Every Application



**Prevent untimely operation** with a built-in inhibitor interlock system that prevents operation with other devices until external contact has been made. Your systems can now coordinate with each other



**Your displays need to show the right information** without being too simple or complex. Easy to read IconoText displays and icons allow for an easy and intuitive setup



**Configurable process alarms** are standard; TEC2 will alert you of any issues in your process and alarms can also be set to trigger open or close functions



For complete technical and installation documentation, scan QR.



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SP 18087-105  
Brazil  
T +55 15 3238 3788  
F +55 15 3228 3300

## ASIA PACIFIC

No. 9 Gul Road  
#01-02 Singapore 629361  
T +65 6501 4600  
F +65 6268 0028

No. 1 Lai Yuan Road  
Wuqing Development Area  
Tianjin 301700  
P. R. China  
T +86 22 8212 3300  
F +86 22 8212 3308

## MIDDLE EAST & AFRICA

P. O. Box 17033  
Dubai  
United Arab Emirates  
T +971 4 811 8100  
F +971 4 886 5465

P. O. Box 10305  
Jubail 31961  
Saudi Arabia  
T +966 3 340 8650  
F +966 3 340 8790

24 Angus Crescent  
Longmeadow Business Estate East  
P.O. Box 6908; Greenstone;  
1616 Modderfontein, Extension 5  
South Africa  
T +27 11 451 3700  
F +27 11 451 3800

## EUROPE

Asveldweg 11  
7556 BR Hengelo (O)  
The Netherlands  
T +31 74 256 1010  
F +31 74 291 0938

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