TEC2000's credentials are recognized worldwide:

TEC2000’s distinctive, common-sense features set a new standard for smart actuators.

Non-intrusive valve control: others got it first, we got it right.

First came “intelligent actuators.”
Now comes one with common sense.

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Ex d IIB + H2 T4 & 120° (T4)
Ex d IIB T4 & 120° (T4)
EEx d IIB + H2 T4 @ 120° (T4)
EEx d IIB T4 & 120° (T4)
T4 & T4A @ Ta 60°C, Type 6P
Groups B, C, D, E, F, G
Class I, II, III Div. 1

@ Ta 60°C, IP68

TEC2000’s distinctive, common-sense features set a new standard for smart actuators.

Non-intrusive valve control: others got it first, we got it right.

A large LCD that’s truly easy to see, read, and understand.
The Local Display Module’s large backlit screen expresses all diagnostic, status, and torque information clearly, using icons to handle non-intrusive setup and diagnostic tasks quickly and easily, and to output analog actuator parameters as a glance.

RDMs ensure controls are easy to reach … even when the actuator isn’t!
EIM’s exclusive Remote Display Module (patented) puts the TEC2000’s non-intrusive controls within easy reach of the operator, regardless of where the actuator is installed or the type of input power. You can network two remote control modules up to 6,000 feet (1,829 meters) apart and perform all of the same configuration and diagnostic tasks that can be accomplished on the actuator’s local controls. The RDMs may be powered from either the actuator’s 24VDC power supply or an independent 115/220VAC power source. Disconnected only four wires (two for power and communication) are needed to hook up Remote Display Modules to the TEC2000’s non-intrusive control system. No more endless troubleshooting and diagnostic tasks that can be accomplished on the actuator’s local controls. The RDMs may be powered from either the actuator’s 24VDC power supply or an independent 115/220VAC power source. Disconnected only four wires (two for power and communication) are needed to hook up Remote Display Modules to the TEC2000’s non-intrusive control system. No more endless troubleshooting.

The handwheel that’s not a wheel.
The TEC2000’s gear box uses reduction gearing to reduce the effort needed to manually open or close a valve. Its distinctive “fold-up” spinner handle provides a convenient way to precisely and easily position any actuator from either the actuator’s local controls or from a Remote Display Module (RDM). The handwheel is actually a large, smooth surface and is easily moved from one motor position to another.

Effectless declutching!
Another practical innovation shifts traditional operations with maximum effort for “cheaters” but is revolutionized to create a comfortable, all-electronically driven system that eliminates the need to physically unlock and lock actuators.

Tri-set design gives you three setup choices.
Configures the actuator in any of three ways: remote setup on the unit’s local Display Module, CE Windows PC or PDA device, or the Local Display Module’s selector switches on the unit’s local Display Module.

Absolute Positive Positioner (APP)
The TEC2000’s potential APP uses a Hall-effect sensor to continuously monitor valve position and torque. The sensor provides the ability to display or record the valve’s actual position even during a power failure.

Introducing TEC2000:
The new non-intrusive actuator that brings Total Electronic Control down to earth.

Now comes one with common sense.

First came “intelligent actuators.”

The ideal Separate Terminal Chamber:
An isolated terminal chamber is one of the defining features of intrinsically safe actuators. But while other actuators may have separate compartments for terminal chambers, the TEC2000’s Separate Terminal Chamber design often offers several distinct, competitive advantages:
- Terminal block helps avoid field wiring errors by providing highly visible labeling for every connection … with all screws already installed!
- Completely dust- and weather-resistive primary fuse compartment ensures maximum safety in the work environment.
- Secondary fuses reset themselves automatically—so you don’t have to open the terminal compartment to change them! 
- Total conduit entry provides convenient wiring paths.

Non-intrusive actuator control:
Up to 4,000 feet (1,219 meters) away, no matter where the actuator is installed. You can remote control up to four actuators off-site! You can also access diagnostic functions remotely to check major actuator parts. The Local Display Module’s large IconoText screen communicates in plain language and simple icons, enabling users to handle non-intrusive setup and diagnostic tasks quickly and easily, and to output analog actuator parameters at a glance.

Retains established, reliable technology.
Mechanical torque sensing: EIM’s spring pack mechanism doesn’t rely on electronics or algorithms to estimate torque. It reliably measures the actual torque and relays it to EIM’s patented APP, which has proven to be more than 10 years of service in all climates. The rotation of the worm-gear measures the actual torque load with a sliding worm gear electronics or algorithms to estimate torque. It reliably measures the actual torque and relays it to EIM’s patented APP, which has proven to be more than 10 years of service in all climates. The rotation of the worm-gear measures the actual torque load with a sliding worm gear, which is converted into an electronic signal by Hall-effect sensors. This allows for full and precise non-intrusive and reliable torque monitoring.

Motor flexibility:
The TEC2000 motor is not used in any load sensing or measurement function, so it requires no calibration. As a result, the motor can be used in any load sensing or measurement function, so it requires no calibration. As a result, the motor can be used in any load sensing or measurement application.

No “cheater” bar is needed—no effort is needed to manually open or close a valve. Its handle is actually a large, smooth surface and is easily moved from one motor position to another.

Tri-set design gives you three setup choices.
Configures the actuator in any of three ways: remote setup on the unit’s local Display Module, CE Windows PC or PDA device, or the Local Display Module’s selector switches on the unit’s local Display Module.

Absolute Positive Positioner (APP)
The TEC2000’s potential APP uses a Hall-effect sensor to continuously monitor valve position and torque. The sensor provides the ability to display or record the valve’s actual position even during a power failure.
A microprocessor-based actuator that’s built on a solid foundation.

We retained all the strengths that earned EIM’s actuators a reputation for longevity, reliability, and ease of operation—all re-added the exact features you need for dependable, high-performance digital valve control.

• The industry’s largest control-to-case size and noise small signal control.
• Now prototyping, vibration-resistant dust-to-dust Switch module in case without opening control compartments.
• Prototyping steel fasteners throughout internal and external, in widely varying design.
• Convenience, multiple mounting options for local display module.
• Remote Terminal Chamber, dust sealed, allows installation entry to be performed without removing control components.
• Optional battery backup allows installation wiring to be performed without opening control compartments.
• Separate Terminal Chamber, dual sealed, allows installation wiring to be performed without removing control components.
• Control enclosure is low-copper aluminum alloy, and is powder-coated, salt resistant, and corrosion proof. Control, operating, and protective safety devices are all group 2 in explosion proof category.
• The industry’s most convenient design: a keypad that is user-orientated in either raised or flat position.

TEC2000 means Total Electronic Control.

• The TEC2000’s Local Display Module (LDM) is designed around a large, bright, LED message screen with four alphanumeric lines. Now prototyping, control knobs serve two functions: local control (open/stop/close) and actuator setup.
• During actuator setup, the message screen displays setup prompts, and operator actuator setup will advance (or “skip” as in “No” response). The other local knob is used to control local back functions to scroll through prompts during the setup process.
• LED light indicates radio status, including opening, closing, stalled, and alarm. Graphic symbols on the LED screen indicate mode of operation (local/setting mode, remote control, emergency stay-put). The internal wiring harnesses are crimped, gold pin-and-socket contacts; all terminals are user-configurable.
• Emergency shutdown circuits (“stay-put” mode) monitor all circuits. Any unsafe condition is detected.
• Internal wiring uses in-expensive, durable electrical connections. Automation requires no special wiring. The LDM is designed around a large, bright, LED message screen with four alphanumeric lines, which can be mounted up to 4,000 feet (1.2 km) away! The TEC2000’s Local Display Module (LDM) is designed around a large, bright, LED message screen with four alphanumeric lines. Now prototyping, control knobs serve two functions: local control (open/stop/close) and actuator setup.
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Visit www.eim-co.com for more information.
The industry’s largest, Justin™, can be found in applications of electric control, and is powder-coated, salt resistant, and compatible with all the features needed to offer Total Electronic Control (TEC) in a true non-intrusive package.

EIM’s TEC2000 is truly non-intrusive; its separate, dual-sealed terminal chamber houses the unit’s primary fuses, defeat the purpose of non-intrusiveness, and can even void some manufacturers’ warranties. Defeats the purpose of non-intrusiveness, and can even void some manufacturers’ warranties.

To see in action, visit the TEC2000, you'll discover electric control components that have it be opened to replace classic, which can require replacement of the control enclosure. The control enclosure is low-copper aluminum. This means that with the TEC2000, you can use the latest standards of control and performance ... coupled with solid power transmission technology that demands of multi-turn and quarter-turn applications just like yours.

This means that with the TEC2000, you will enjoy the latest standards of control and performance — coupled with solid power transmission technology that demands of multi-turn and quarter-turn applications just like yours.


TEC2000 is equipped to handle both quarter-turn and multi-turn applications across an extremely broad range ranging from three-phase or single-phase power.

Space heater prevents internal condensation (thermostatically controlled; fifth characteristic temperature). Industrial actuators are built to stay cool; they need to remain powered during electrical outages; no battery required to maintain power.

Separate Terminal Chamber, dual sealed, allows installation wiring to be performed without exposing control components.

• Optional battery backup allows installation wiring to be performed without exposing control components.

• Fan-cooled electronic actuators with large, iconic text LCD message screen and four hexadecimal functions. Now-generation control knobs allow two functions: local control (open/stop/close) and actuator setup.

• Emergency shutdown — independent safety system. A microprocessor-based actuator that’s built for hard work and easy maintenance.

• Exclusive Tri-Set feature gives you the freedom to choose from any of three configuration methods.

• Optional battery backup allows installation wiring to be performed without exposing control components.

• TEC2000 is designed around a large, iconic text LCD message screen and four hexadecimal functions. Now-generation control knobs allow two functions: local control (open/stop/close) and actuator setup.

• During actuator setup, the message screen displays setup prompts, and operators instructions that can be held for 10 sec. (via (patented) “Clicker” or “No” response). The other local knob is used to control basic functions that scroll through prompts during the setup sequence.

• LED lights indicate valve status, including opening, closing, stopped, and alarm. Graphs

• A microprocessor-based actuator that’s built for hard work and easy maintenance.

To see in action, visit the TEC2000, you'll discover electric control components that have it be opened to replace classic, which can require replacement of the control enclosure. The control enclosure is low-copper aluminum. This means that with the TEC2000, you can use the latest standards of control and performance ... coupled with solid power transmission technology that demands of multi-turn and quarter-turn applications just like yours.
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Head Office and Factory
EIM Controls, Inc.
13840 Pike Road
Missouri City, Texas 77489 USA
(800) 679-1561 toll-free, U.S. only
(281) 499-1561 phone
(281) 499-8445 fax
sales.usa@eim-co.com

Eastern Hemisphere Sales
EIM Controls UK Ltd.
34 Liberty House
New Greenham Park, Newbury
RG19 6HW, England
+44 (0) 1635-817-315 phone
+44 (0) 1635-817-460 fax
sales.international@eim-co.com

www.eim-co.com