

# ICoT DIGITAL POSITIONER

Delivering Enhanced Diagnostics with Actionable Insights

The ICoT positioner series has demonstrated consistent success for more than 15 years, proving its effectiveness in a wide range of demanding applications across industries such as oil and gas, chemical, power, pulp and paper, and food and beverage. Offering precise position control modulation, the ICoT digital positioners ensure reliable and efficient control for both rotary and linear action valves. Select from HART, FOUNDATION Fieldbus, and Profibus PA protocols, providing flexibility and connectivity options for various systems.

## FEATURES & BENEFITS

- Non-contact Position Sensing: Maximize operational life
- Rotary and Linear Control: Extremely accurate tracking of control signal
- Remote Mount Capability: Ideal for high vibration or extreme environments
- Local LCD Display: Range of on-site diagnostic information
- Intelligent Auto-Calibration: Commission your valve in minutes
- Precision Tuning: Minimize errors and provide precise control response
- Actionable Diagnostics: Insights to keep plant running



[westlockcontrols.com](http://westlockcontrols.com)

**WESTLOCK**  
CONTROLS

# WESTLOCK ICoT DIGITAL POSITIONER

Unlike conventional positioners, the ICoT feeds back accurate valve position without the need for linkages, levers, and rotary or linear seals. Position sensing is performed by a non-contact sensor, employing Hall Effect magnetic principles. Westlock's ICoT remote mount capability keeps personnel safe, allowing for isolation in high vibration, corrosive environments, or hard to reach places.

## NON-CONTACT SENSING

Conventional sensing requires linkages, levers and rotary or linear seals which degrade over time. The ICoT is equipped with position sensing, performed by a non-contact Hall Effect sensor to ensure magnetic feedback remains precise for maximum product life.

## REMOTE MOUNT CAPABILITY

The ICoT has the ability to be mounted remotely from the device it is controlling. This allows the positioner to be isolated if the control valve is located in high vibration, corrosive environments, or hard to reach places for personnel safety.

## AGENCY APPROVALS

Non-Incendive  
Intrinsically Safe

## ROTARY CONTROL

Minimal positioner hysteresis, allowing for extremely accurate tracking of the control signal within 0.1 mA. An external magnetic module attached to the output shaft of the actuator rotates around this sensor.

## POSITION FEEDBACK

The 4-20mA feedback transmitter comes standard to the ICoT. Additional options include limit switches, mechanical SPDT, Magnum proximity, and inductive proximity.

## DIAGNOSTIC CAPABILITY

- Stick-slip detection
- Excessive static position error
- Low air supply pressure
- Clogged air supply filter
- Restricted transducer nozzle
- Transducer diaphragm air leak
- Non-functioning spool valve
- Calibration error

## LINEAR CONTROL

ICoT is a fully digital positioner allowing for multiple control algorithms, leading to better controllability for a larger range of actuators. ICoT enables a wide range of diagnostic information to be generated.



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