Logix Digital Positioner

The Logix™ positioner combines a responsive 16-bit microprocessor and two-stage electronic relay with features such as local status LEDs and an on-board calibration button to deliver unparalleled performance. In addition to high sensitivity and fast response, this positioner offers real-time diagnostics to assist in predictive/preventative valve maintenance and extensive configurations to optimize various valve types and sizes.
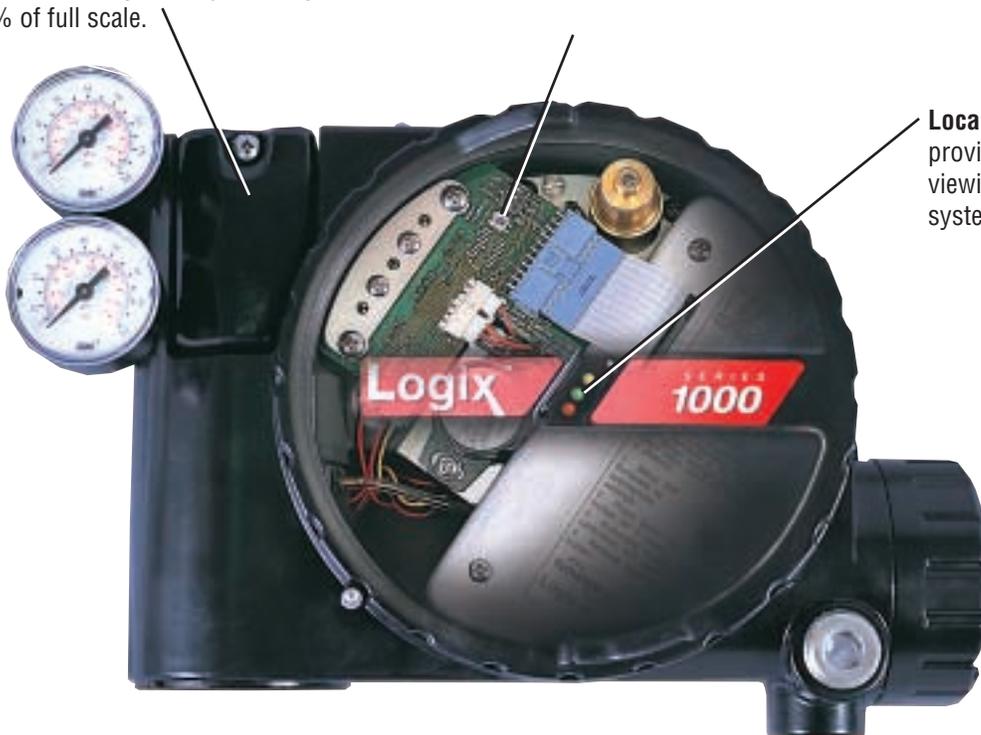
Explosion-proof construction with intrinsically safe ratings available.

HART™ **protocol** for compatibility with existing and future smart instrument systems.

Exceptional performance with proprietary two-stage electronic relay and 16-bit microprocessor; achieves resolution, linearity and repeatability better than 0.1% of full scale.

Quick-Cal™ function allows automatic, push-button calibration without the use of external devices.

Local status LEDs provide instant viewing of the system's condition.

ValTalk™ **software** for communicating with the positioner via computer, provides a variety of configurations, diagnostics, custom characterizations, and other functions.

ACORD
CONTROLS

Logix 1000 Information

The following information is accessible from the Logix Digital Valve Controller:

Identification
- Spool identification
- Air action
- Tag number
- Spring type
- Valve style
- Valve material
- Valve body size
- Valve serial number
- Valve manufacturer
- Valve pressure class
- Valve end connections
- Fail position
- Stroke length
- Flow direction
- Trim number/size
- Trim characteristic
- Stem/shaft diameter
- Trim type and material
- Leakage class
- Inlet/outlet pressure
- Actuator size and type
- Device name/description
- Embedded software version
- Electronic serial number
- Engineering units
- Message - up to 32 characters

Calibration
- Stroke
- 4-20 mA signal
- Pressure sensor
- Calibration date
- Calibrated by initials

Data Acquisition
- Valve position
- 4-20 mA signal
- Command signal
- Clockwise actuator pressure
- Counter clockwise actuator pressure

Diagnostics and Signatures
- Step test
- Ramp test
- Internal power test

Preventive Maintenance
- Actual travel
- Rated travel
- Travel alert
- Packing style
- Cycle counter
- Cycle alert

Logix Series 1000 Variables
- Noise filter
- Integral gain
- Board current
- Travel position
- Supply pressure
- Digital input signal
- Analog input signal
- Stroke open speed
- Stroke closed speed
- Internal temperature
- Position deviation alert
- Minimum position cutoff
- Communication error log
- Minimum proportional gain
- Maximum proportional gain
- Proportional gain multiplier
- Upper and lower travel alert
- Upper and lower soft limit stop
- Multiple characterization library
- Actuator pressure sensor check
- 21-point custom characterization
- Two-level security (ValTalk)

Blue denotes additional functionality available
on model with advanced diagnostics.

How To Order *(Select **Bold Type Code** from each column that applies)*

Model / Protocol	Diagnostics	Certifications / Listings	
12 – HART	**00** – Basic **10** – Advanced	**– 05-A** **– 07-A** **– 10-A** **– 13-A**	Ex d; Ex ib; ExN SAA (pending) EEx d IIB + H2 CENELEC (pending) Exp. Proof; IS; Non-Inc. FM / CSA EEx ib IIC; EEx nL CENELEC

Example: 1200-10-A = HART, Basic, Exp. Proof; IS; Non-Inc. FM / CSA

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