

Смарт-позиционеры серии 6А

Технические характеристики



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Смарт-позиционеры серии 6А

Precision digital control with proven reliability Bray's Series 6A positioners were designed with ease of installation, simple calibration, efficiency and economy in mind. Units for rotary single acting and double acting actuators are offered as standard. Intrinsically safe versions are also available.

Bray's BUS positioners offer all Series 6A features plus increased network communication and remote access to positioner parameters and diagnostics.

ON-LINE ADAPTIVE CONTROL: During operation, the unit continually optimizes control behaviors and travel times in response to changes in line media pressure.

DIAGNOSTICS: Bray's Series 6A positioners feature corrective and preventative maintenance self-diagnostic checks. All diagnostics run constantly, may be continually monitored, and recorded.

AIR SUPPLY MONITOR: An additional feature of the Series 6A is an internal monitor that transmits a fault signal alarm if the air supply fails. The alarm is shown locally on the LCD and may be sent to the remote control panel.

LOCAL POSITION ADJUSTMENT: Valve position can be manually adjusted locally by removing the housing cover, then using the push buttons to override the remote command signal.

FLOW RESTRICTORS: Precise control of even the smallest pneumatic actuators through internal flow restrictors.

POSITION INDICATOR: In addition to the LCD display, valve position is clearly shown over a distance by a yellow indicator.

LOCKING DEVICE: For high vibration applications, the Series 6A features, as standard, a friction clutch locking device.

EXPLOSION PROOF UNITS

Designed for hazardous and severe applications, Series 6A explosion proof positioners offer all the features of the waterproof units in a flame-proof enclosure.

The automatic calibration keypad push buttons in the explosion proof units are externally mounted and easily accessible behind a flap. The units can be controlled locally, even during operation, without removing the housing cover. The LCD display is viewed from behind a sodium glass explosion proof window.

Waterproof/Explosion Proof enclosures meet NEMA 4, 4x, 7 & 9 specifications. These enclosures are constructed of die cast aluminum with an epoxy coating for chemical and corrosion protection. A waterproof stainless steel enclosure is available upon request.



Shown with
optional gauges

MODULAR ACCESSORIES

GAUGE MANIFOLD: An externally mounted gauge manifold is offered with up to three gauges to measure air supply and the actuator input and output pressures.

VOLUME BOOSTERS: These modules increase air volume output and decrease response time.

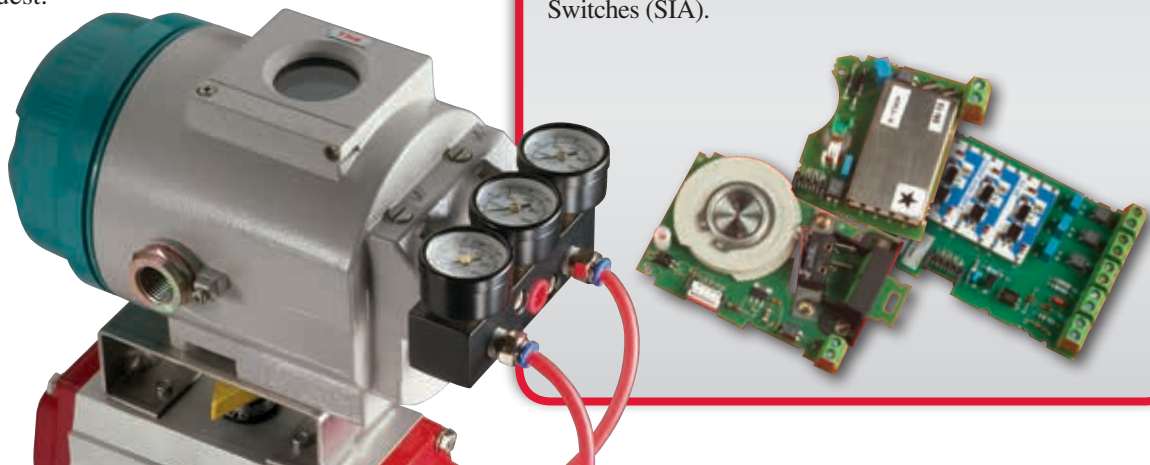
OPTIONAL BOARDS

These optional boards provide additional information and features and can be easily installed in the field.

RETRANSMISSION MODULE (IY): This 4-20mA DC output board indicates valve position to the control room.

PROGRAMMABLE ELECTRONIC SWITCHES (ALARM): Two semiconductor switch outputs and one alarm output may be programmed to activate at various travel positions. One digital input is also included.

LIMIT SWITCHES: For cam activated indication of actuator travel limits, two output formats are offered: Mechanical Switches or intrinsically safe Inductive Proximity Switches (SIA).

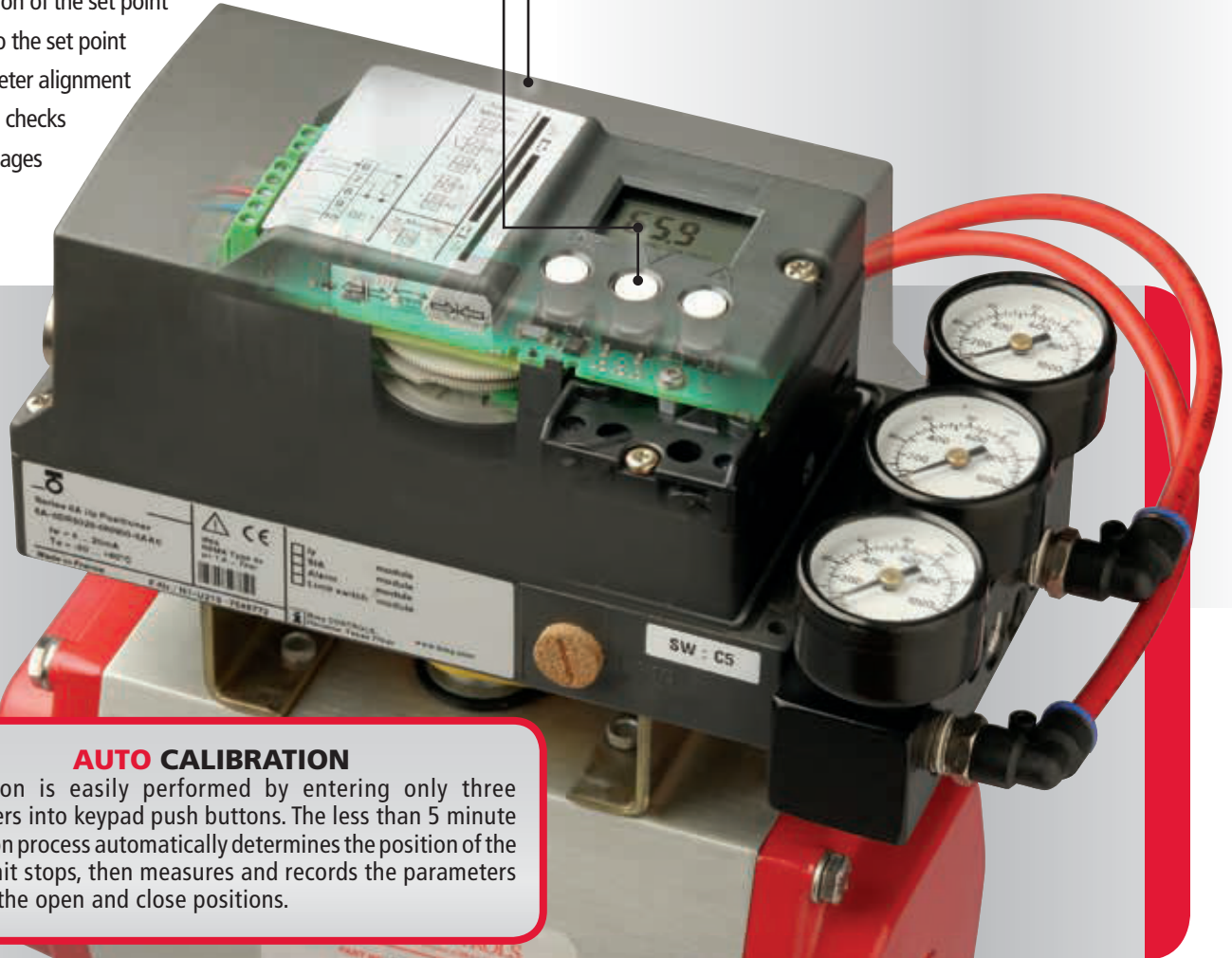


LCD DISPLAY & KEYPAD: Provides visual confirmation of valve position in precise one degree increments, operating status and keypad entries with the housing cover in place. The positioner operating mode (automatic or manual) and alarm messages are also shown.

With the housing cover removed, the keypad push buttons are accessible to perform a variety of functions:

- Confirmation of the set point
- Progress to the set point
- Potentiometer alignment
- Diagnostic checks
- Error messages

ENCLOSURES: The standard waterproof enclosure is constructed of a durable, lightweight polymer, providing excellent chemical and corrosion resistance.



AUTO CALIBRATION

Calibration is easily performed by entering only three parameters into keypad push buttons. The less than 5 minute calibration process automatically determines the position of the travel limit stops, then measures and records the parameters for both the open and close positions.

SERIES 6A WATERPROOF UNITS - SPECIFICATIONS

Supply Pressure [Max]	20 - 102psi (1.4-7Bar)	Weight	2.0 lbs. (0.9 kg)
Air Consumption (80psi)	<0.00035 scfm (.00275 sccm)	Control Element Type	Piezoelectric
Input Signal		EMC Requirements	EN 61326/A1 Appendix A.1 NAMUR NE21 August 98
Analog	4-20 mADC	Protection Class	NEMA 4, 4x and IP66
BUS	HART, Foundation Fieldbus, Profibus PA	Materials	
Connections		Housing	Fiberglass Reinforced Polymer with Metalized Coated interior for EMC protection
Supply	1/4" NPT (G 1/4")	Housing Fasteners	Stainless Steel
Signal (2 conduit entries)	1/2" NPT (M20x1.5)	Position Indicator	ABS polymer
Resolution	<0.05%	Positioner Mounting	VDI/VDE 3845 (NAMUR)
Repeatability	0.32%	Available Approvals	FM, CSA, CE, ATEX
Hysteresis	<0.2%		
Temperature Range	-22°F to +176°F (-30°C to +80°C)		

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