



APLISENS APIS-100 Electr Opneumatic Positioner Apis Owner's Manual

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APLISENS APIS-100 Electr Opneumatic Positioner Apis



Product Information

Specifications

- **Additional errors:**
 - From supply pressure changes
 - From ambient temperature changes
 - From vibration in range: 10...60Hz, amplitude < 0,35 mm 60....500Hz, acceleration 5g
- **Protection degree of positioner enclosure:** IP 65 according to PN-EN 60529:2003
- **Operation position:** Any
- **Weight:** 1.8 kg
- **Allowable vibrations** – 10...60Hz, 60...500Hz

Product Usage Instructions

Operating Conditions

XI/ 2

Ordering Procedure

Intend use:

- For single-operating actuator: 1
- For double-operating actuator: 2

Frequently Asked Questions (FAQ)

What is the IP rating of the positioner enclosure?

The protection degree of the positioner enclosure is IP 65 according to PN-EN 60529:2003.

Electropneumatic positioner APIS

- HART protocol
- ATEX certificate II 2G Exia IIC T5/T6 Gb
- Simple in installation and programming
- Diagnostic functions
- Possibility of remote assembling of positioner
- Low air consumption
- Programmable speed of movement of the actuator's piston rod
- Position transmitter
- Possibility of manual controlling of position of actuator's piston rod

Technical data

- Input signal (control) 4...20mA + Hart
- Output signal (position transmitter) 4...20mA
- Supply of position transmitter 10÷36 VDC (Ex 10÷30 VDC)
- Supply pressure 140÷800 kPa
- Pneumatic input signal (control actuator) 0...100% of supply pressure
- Own air consumption ÷ 0,035 kg/h for supply pressure 140 kPa
- ÷ 0,015 kg/h for supply pressure 600 kPa
- Air mass stream on positioner output ÷ 3,25 kg/h at supply pressure 140 kPa
- ÷ 13 kg/h at supply pressure 800 kPa
- Actuator piston rod displacement range 10÷100 mm (for single-acting linear actuators)
- 80÷900 mm (for double-acting linear actuators)
- 0÷180° (for rotational actuators)
- Actuator operation characteristics linear
- Positioner operation mode normal or reversible
- Positioner transducer mode normal or reversible
- Additional errors
 - from supply pressure changes
 - from ambient temperature changes
 - from vibration in range:
 - 10...60Hz, amplitude < 0,35 mm
 - 60...500Hz, acceleration 5g
- < 0,05% / 100kPa
- 0,15% / 10°C – for temperature range -30°C÷+60°C
- 0,25% / 10°C – for temperature range -40°C÷-30°C and +60°C÷+85°C
- 0,25%
- Hysteresis < 0,4%
- Insensibility threshold < 0,1%
- Protection degree of positioner enclosure IP 65 according to PN-EN 60529:2003
- Operation position any
- Weight 1,8 kg

Pneumatic connectors:

- without connectors (thread Rp1/8").....	0
- connectors to brass pipes Ø6 mm.....	1
- connectors to stainless steel pipes Ø6 mm.....	2
- connectors to Polyethylene pipes Ø6 mm.....	3
- connectors to brass pipes Ø8 mm.....	4
- connectors to stainless steel pipes Ø8 mm.....	5
- connectors to Polyethylene pipes Ø8 mm.....	6
- other.....	8

Manometers:

- with manometers Ø40 mm, standard version.....	2
- with manometers Ø40 mm, stainless steel version.....	3

Electrical entry:

- plastic packing gland (Ø4 ÷ 10 mm cable).....	1
- nicked brass packing gland (Ø6 ÷ 10,5 mm cable).....	2

Mounting kit:

- without mounting kit.....	0
- with mounting kit (code according to below table).....	1

1. For double-operating linear actuator.
2. Not available with ATEX
3. For single-operating linear diaphragm actuators and single and double-operating rotational actuators
4. The positioner can set reverse of analogue output signal (20...4 mA). The reverse function of the output signal is switched on programmatically by the user.

Mounting kit		Type of actuator
APIS-A000	For APIS-100- ...	Type P or R, Polna S.A. (mounted on the columns)
APIS-A001		Type 37 or 38, Polna S.A. (yoke)
APIS-A002		Type P1 or R1, Polna S.A. (diaphragm multi-spring)
APIS-A003		Actuator acc.PN-EN 60534-6-1:2001 (Samson, Arca Regler)
APIS-A050	For APIS-X00- ...	Actuator acc. EN ISO 5211, DIN 3337, VDI/VDE 38450 Namur, (Air Torque, Ebro-Armaturen, El-O-Matic)
APIS-AXXX	For APIS-201- ...	Actuator acc. ISO 6431 (CNOMO Prema Kielce)
	-SS	Material: stainless steel
	-SO	Material: zincd steel

Documents / Resources

	APLISENS APIS-100 Electr Opneumatic Positioner Apis [pdf] Owner's Manual APIS-100, APIS-X00, APIS-201, APIS-100 Electr Opneumatic Positioner Apis, APIS-100, Electr Opneumatic Positioner Apis, Opneumatic Positioner Apis, Positioner Apis, Apis
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References

- [User Manual](#)

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