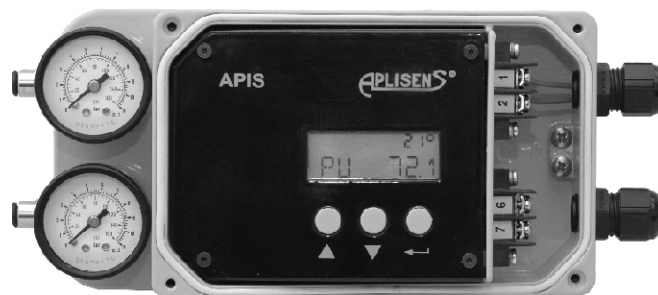


# Electropneumatic positioner APIS

- ✓ Simple in installation and programming
- ✓ 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



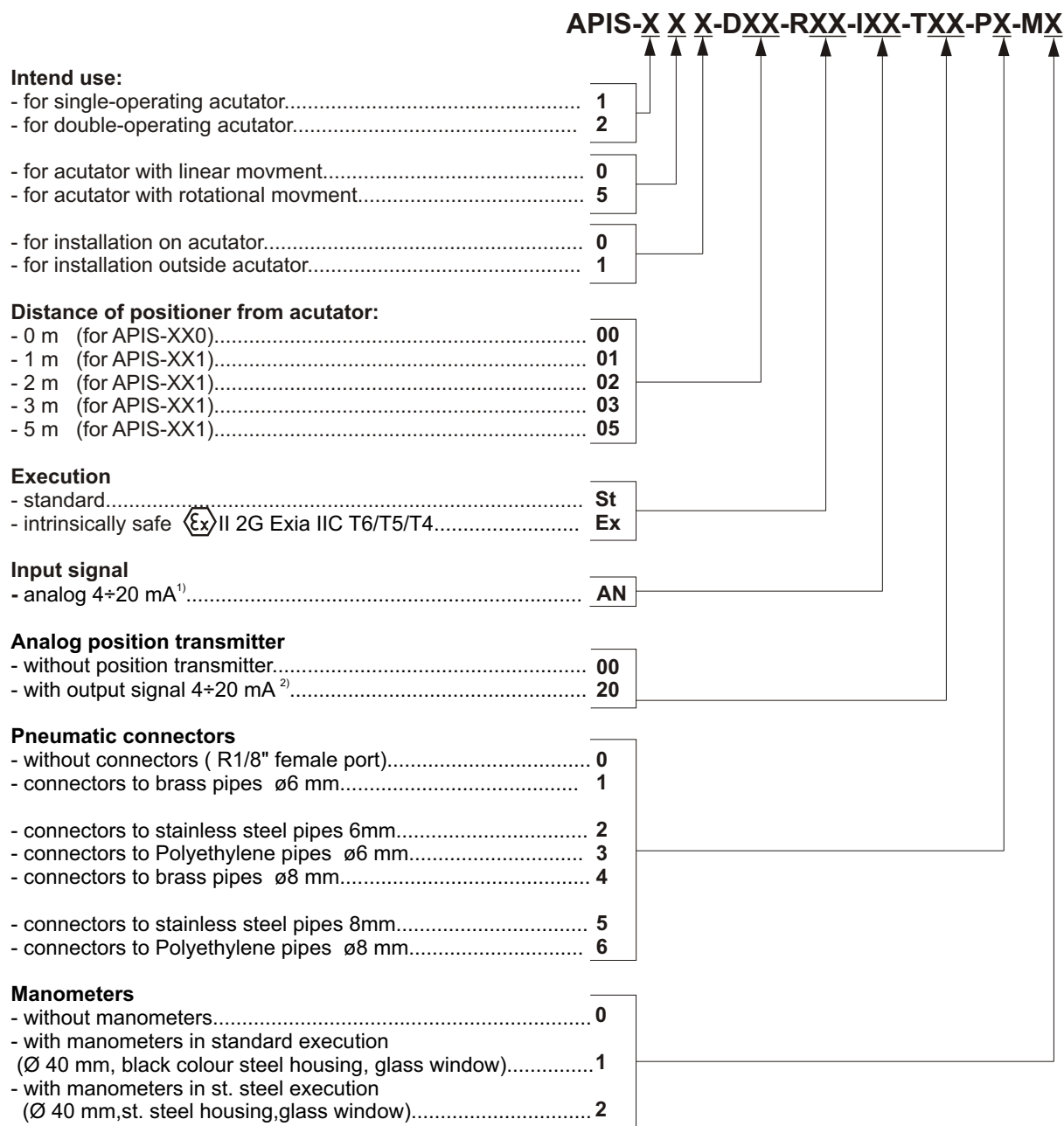
## Technical data

Input signal (control)	analogue 4...20mA two-wire
Output signal (position transmitter)	analogue 4...20mA two-wire
Supply of position transmitter	10...36VDC
Input resistance	490 $\Omega$ / 20mA
Supply pressure	140...800 kPa
Pneumatic input signal (control actuator)	0...100% of supply pressure
Own air consumption	$\leq 0.035$ kg/h at supply voltage 140 kPa $\leq 0.015$ kg/h at supply voltage 600 kPa $\geq 3.25$ kg/h at supply voltage 140 kPa $\geq 13$ kg/h at supply voltage 800 kPa
Air mass stream on positioner output	10...100 mm ( for single-acting linear actuators ) 10...600 mm ( for double-acting linear actuators ) 0...180° ( for rotational actuators )
Actuator piston rod displacement range	linear
Actuator operation characteristics	normal or reversible
Positioner operation mode	normal or reversible
Positioner transducer mode	
Additional errors	
- from supply pressure changes	$< 0.05\%$ / 100kPa
- from ambient temperature changes	0.15% / 10°C – for temperature range -30°C...+60°C 0.25% / 10°C – for temperature range -30°C...-40°C and +60°C...+85°C
- from vibration in range:	
10...60Hz, amplitude $< 0.35$ mm	0.25%
60...500Hz, acceleration 5g	$< 0.4\%$
Hysteresis	$< 0.1\%$
Insensibility threshold	IP 65 according to PN-EN 60529:2003
Protection degree of positioner enclosure	any
Operation position	1.8 kg
Weight	

## Operating conditions

- working medium: air free of dust, oil, aggressive pollutants, solid particles bigger than 1.5  $\mu$ m, such relative humidity not lower that dew point's temperature should not be lower than 10 °C with respect to ambient temperature (acc. to PN-EN 60654-2:1999. )
- ambient temperature:
  - Execution without manometers and with stainless steel manometers: -40°C....+85°C
  - Executions with manometers in stainless steel and carbon steel enclosure: -25°C... +65°C
- humidity of ambient air:  $< 95\%$
- allowable vibrations
  - 10...60Hz, acc. to PN-EN 60654-3: 1997; class VH6
  - 60...500Hz, amplitude  $< 0.35$  mm
  - acceleration  $\leq 5g$

## Ordering procedure



1) The positioner can control analogue reverse signal 20-4 mA. The reverse function of control signal is switched on programmatically by the user.

2) The positioner can set reverse of analogue output signal (20-5 mA). The reverse function of the output signal is switched on programmatically by the user.

### EXAMPLE:

Electropneumatic positioner is intended for installation on one-sided, linear movement actuator, in standard execution, with analogue input signal 4...20 mA with input signal from position transmitter (4...20 mA) with connectors to the polyethylene pipes ø 6 mm, with manometers in standard execution for measurement of air supplying positioner and pressure of actuator's control air.

Electropneumatic positioner, type APIS-100-D00-RSt-IAN-T20-P3-M1.

**CAUTION:** Components enabling assembly of the positioner on actuator or outside it should be selected according to individual code contained in the index card "Mounting set for the APIS type electropneumatic positioner" available on the website [www.aplisens.pl](http://www.aplisens.pl)