



EPC1000 Series E/P Transducer

Technical Data

Series	EPC1000		
Input Signal	4~20mA DC Split range is possible by span and zero adjustment, Adjustment range: 4~12,12~20mA DC		
Supply Pressure Range	Minimum: 20kPa above max output Maximum: 700kPa		
Supply Pressure Sensitivity	< ±0.15% of span Per 1.0kPa at midrange		
Linearity	< ±1.0% FS		
Repeatability	< ±0.5% FS		
Hysteresis	< ±1.0%FS		
Flow Rate at Midrange (Minimum)	7.6Nm³/h (Supply pressure at 175kPa) 20Nm³/h (Supply pressure at 700kPa)		
Ambient Temperature	-30~ +60℃		
Ambient Humidity	<85% RH		
Air Consumption(Max.)	0.2Nm³/h at midrange		
Conduit Connection	G1/2 internal thread, NPT1/2 internal thread		
Air Piping Connection	M10×1 (pneumatic) card sleeve Fitting (φ6 Cooper Tube)		
Material of Case	Aluminum Alloy		
Weight	0.94kg for General Purpose and Intrinsic Safety Type 2.35kg for Flameproof Type		
Explosion Protection Grade	Flameproof d I I BT6 Intrinsic Safety ia I I CT5 General Purpose		

Description

The EPC1000 Series E/P Converter is a direct moving type electropneumatic converting unit that converts different current signals into correspondent pneumatic output ones. The transducer is equipped with a pneumatic power amplifying relay that can provide the pneumatic signal with a higher output power, being sent to various kinds of pneumatic actuator to increase their acting speed. Besides as the converting unit between electric instrument and pneumatic controller or pneumatic control valve, it can also be used with a pneumatic positioner to realize the function of a E/P positioner.

Model and Specifications

EPC 1						
Series	0	0	0			
Input Electric Signal	1					4~20mA DC
	2					0~10mA DC
	3					4~12mA DC
	4					12~20mA DC
	5					0~5mA DC
	6					0~10mA DC
Output Pneumatic Pressure	1					20~100kPa Direct Action
	2					100~20kPa Reverse Action
	3					20~60kPa Direct Action
	4					60~100kPa Direct Action
	5					60~20kPa Reverse Action
	6					100~60kPa Reverse Action
	7					40~200kPa Direct Action
	8					200~40kPa Reverse Action
	9					40~500kPa Direct / Reverse Action
		0				Always 0
Accessories			AS			With United Filter-Regulator
						Without United Filter-Regulator
			OG			With Pressure Gauge
Explosion Protection Grade				G		General
				Ex		Flameproof
				I		Intrinsic Safety

Example: EPC1110-AS-OG/I indicates the Transducer is a EPC1000 Series E/P Transducer, input signal 4~20mA DC, and output pressure 20~100kPa, with united filter-regulator & output gauge, and intrinsic safety type.

Features

1. The transducer is a direct moving type instrument without feedback and the pneumatic signal with a high output power can be obtained.
2. It has high reliability, simple structure, small size and lightweight.
3. High sensitivity and medium accuracy (especially suitable for output circuit) are available.
4. The action type can be changed directly in the field.
5. It is convenient to carry out calibration and maintenance with span and zero adjusting mechanism equipped outside of the transducer.
6. Auto-compensation of temperature can be made because the heat-sensitive resistance is attached to internal circuit of the transducer.
7. Because of wide range of supply pressure, it is appropriate to be used in different cases.
8. The transducer can be used for various input electric signals directly, for example 4~20mA DC or 0~10mA DC. Its pneumatic output pressure can also be split as 20~60kPa or 60~100kPa. In order to achieve above-mentioned purpose, it needs only adjust zero and span adjusting mechanism.
9. The transducer is small in air consumption.
10. It is capable for mounting at any angle. (Note: Position of working angle shall be in accordance with one of calibrating angle.)
11. Explosion protection grade: ia I I CT5 for Intrinsic safety type; d I I CT6 for Flameproof type.

Dimensional Drawings

