

Specification

PREX3000 Vector Involute Type Pneumatic Pressure Transmitters Model KKP11/12/13/14



The PREX3000 instruments are pneumatic type transmitters which employ a combination of vector balance mechanism and involute mechanism.

The instruments are featured by high resistance against adverse environments, high turn-down ratio, high accuracy, and ease of maintenance.

Standard Specifications

Item	Specifications									
Measuring range (continuously adjustable)	KKP 11: 0-5 to 0-70 MPa {0-50 to 0-700 kgf/cm ² } KKP 12: 0-1.25 to 0-25 MPa {0-12.5 to 0-250 kgf/cm ² } KKP 13: 0-0.35 to 0-7 MPa {0-3.5 to 0-70 kgf/cm ² } KKP 14: 0-0.175 to 0-3.5 MPa {0-1.75 to 0-35 kgf/cm ² }									
Working pressure,	Model No Working pressure Overload protection Process connection									
Overload protection, Process connection	KKP 11	1	-0.1 to +70 MPa (-1 to +700 kgf/cm ²)		75 MPa {750 kg!/cm²}		Welded nipple (ϕ 13.6 × 50)			×50)
Frocess connection	ККР 12	KKP 12 -0.1 to +30 MPa (-1 to +300 k			32 MPa (320		Rc 1/2 or 1/4 internal thread, 1/2 or 1/4 NPT internal thread			
	KKP 13	KKP 13 -0.1 to +10.5 MPa (-1 to +105 kgf/cm ²			14 MPa {140					
	KKP 14	-0.1 to +5	25 MPa{-1 to +52	.5 kgf/cm²}	7 MPa (70	7 MPa (70 kgf/cm²)				meau
Air supply connection	Rc 1/4 or 1/4 NPT internal thread									
Air supply pressure	140±14 kPa {1.4±0.14 kgf/cm²}									
Output	20-100 kPa {0.2-1.0 kgf/cm²}									
External load	ID 4 mm × Length 3 m+20 cm³ or over									
Air supply capacity	20NL/minute or over, with 6.7 kPa {50 mmHg} change									
Air consumption	5NL/minute or less (when balanced at output 100%)									
Accuracy, Dead band	Model No. KKP 11 KKP 12 KKP 13 KKP 1						14			
	Span (MPa {kgf/c	m²})	5 {50} to less than 10 {100}	10 {100} or over	1.25{12.5} to less than 2.5 {25}	2.5 {25} or over	0.35 {3.5} to less than 0.7 {7}	0.7 {7} or over	0.175{1.75} to less than 0.35 {3.5}	0.35 {3.5 or over
	Accuracy (%	6FS)	±1	±0.5	±1	±0.5	±1	±0.5	±1	±0.5
	Dead band ((%FS)	0.	1	0.1		0.1		0.	1
Operating temperature	Meter body (process fluid): -40 to +120°C Transmitter (ambient): -30 to + 80°C									
Operating humidity	10 to 90% RH	ł							k	
Construction	Dustproof and waterproof, meets IEC IP54, NEMA Type 3R, JIS F8001 Class 3 splashproof, JIS C0920 rainproof									
Materials	Bourdon tube: SUS316 Wetted parts gasket: Teflon Cover: SUS316 Transmitter case: Aluminium alloy									
Finish	Acryl baking finish Color: Light beige (munsell 4Y7.2/1.3)									
Mounting	On vertical or horizontal 2-inch pipe.									
Net weight	Approx. 5.5 kg (add 0.8 kg for air-set)									

Optional Specifications

Item	Specifications							
(1) Suppression and elevation								
		Span		Suppression (max.)	Spring A	Spring B	Working Pressure (max.)	
	Model No.				Elevation (max.)	High Elevation		
	KKP 11			-100 kPa	65 (650)	_	70 (700)	
	ККР 12				22.5 (225)	22.5 to 28.75{225-287.5}	30 (300)	
	ККР 13	0.35 to 7 {3.5-	-70 kgf/cm²}	{-1}	6 (60)	6 to 10.15 {60-101.5}	10.5 (105)	
	KKP 14	KKP 14 0 175 to 3.5(1.75-35 kgf/)	3 (30)	3 to 5.075 {30-50.75}	5.25 (52.5)	
	(note: elevation+span≦maximum operating pressure)							
(2) Air-set (filter and pressure regulator)	Primary pressure: Secondary pressure: Filter mesh diameter: Connections:		1 40 kPa 5 microi	990 kPa {2-9.9 {1.4 kgf/cm ² } ns or 1/4NPT inter	-			

Optional Semi-standard Specifications

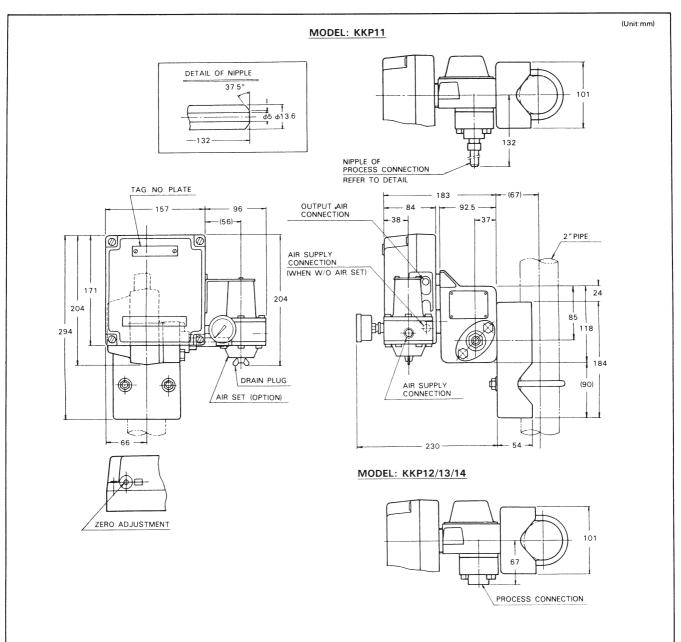
Item	Specifications					
(1) Steam block (Y29)	Maximum working pressure: 5 MPa {50 kgf/cm²} Maximum operating temperature: 250°C (except meter body whose temperature must not exceed 120°C) Steam piping connections: Rc 1/4 or 1/4 NPT internal thread Material of block: Carbon steel (SF45A)					
(2) SUS304 bolts for meter body clamping (Y66)	Working pressure: The same as the standard specifications.					
(3) Oil free (Y67)	Wetted parts treatment: Treated for degreasing					
(4) Corrosion-resistant and silver finish (Y138)	 Corrosion resistant (acryl baking) finish (Y138A): Resistant against corrosive gases. Corrosionproof (epoxy baking) finish (Y138B): Resistant against corrosive liquids. Silver-normal (acryl baking) finish (Y138C): To prevent temperature rise of instrument caused by direct sunlight or radiation from other source of heat. Silver-corrosion-resistant (acryl baking) finish (Y138D): To prevent temperature rise the same as above, plus resistance against corrosive gases. (note: silver finish is not applicable for alkaline gases.) 					
(4) Output pressure gauge (Y185)	Pressure gauge (100 mm diameter) OUTPUT GAUGE(ø100) TRANSMITTER					
(5) High vibration resistant type (Y188)	High vibration resistant type with dashpot.					

Ex: KKP11-22A1-5, 7

Model Number Table

Basic Model No.		Cover Mat'l		Air Piping Connections	Pressure unit /	Options	Description		
Model No.	Span	Wath	Mat'l	Connections	Output				
KKP 1							Pressure transmitter		
	1						0-5 to 0-70 MPa {0-50 to 0-700 kgf/cm²}		
	2						0-1.25 to 0-25 MPa {0-12.5 to 0-250 kgf/cm ² }		
	3						0-0.35 to 0-7 MPa {0-3.5 to 0-70 kgf/cm ² }		
	4						0-0.175 to 0-3.5 MPa {0-1.75 to 0-35 kgf/cm²}		
		-2					SUS316		
			2				SUS316		
			<u></u>	А			Rc 1/4 internal thread		
				В			1/4 NPT internal thread		
					1		kgf/cm ² (or mmH ₂ O) / 0.2 to 1.0 kgf/cm ²		
					2		PSI / 3 to 15 PSI		
					3		bar / 0.2 to 1.0 bar		
Note) When ordering "Y" options, please write as: KKP11Y-22A1-5,7 (Y □).					4		Pa / 20 to 100 kPa		
					8		Pa / 19.6 to 98.1 kPa (equality to 0.2 to 1.0 kgf/cm ²)		
						-X	No option		
						-5	Elevation or High elevation		
						-6	Suppression		
						-7 Air-set			

Dimensions



Ordering Information

- When ordering, please specify:
- 1) Model No.
- 2) Measuring range
- 3) Optional specification
- 4) Optional semi-standard specification

Reference instruction manual · · · OM2-5220-0000/ OM2-5240-1100

Please read the "Terms and Conditions" from the following URL before ordering or use: http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.

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