



PREX3000 VECTOR INVOLUTE TYPE PNEUMATIC DIFFERENTIAL PRESSURE TRANSMITTERS

MODEL: KKP 25/26/27/28 (ABSOLUTE PRESSURE)

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 25: 0-0.35 to 0-7 kgf/cm ² abs.									
	KKP 26: 0-0.1 to 0-2 kgf/cm ² abs.									
	KKP 27: 0-25 to 0-500 mmHg abs.									
	KKP 28: 0-5 to 0-100 mmHg abs.									
Working pressure, Overload protection, Process connection (refer to note.)	Model No.	Working pressure			Overload protection			Process connection		
	KKP25	0-7 kgf/cm ² abs.			14 kgf/cm ² abs.			Rc ½ or ¼ internal thread, ½ or ¼ NPT internal thread		
	KKP26	0-2 kgf/cm ² abs.			6 kgf/cm ² abs.					
	KKP27	0-500 mmHg abs.			4 kgf/cm ² abs.					
KKP28	0-100 mmHg abs.			4 kgf/cm ² abs.						
Air supply connection	Rc ¼ or ¼ NPT internal thread									
Air supply pressure	1.4 ± 0.14 kgf/cm ²									
Output	0.2-1.0 kgf/cm ² or 3-15 psi									
External load	ID 4 mm × Length 3 m + 20 cm ³ or over									
Air supply capacity	20Nℓ / minute or over, with 50 mmHg change									
Air consumption	5 Nℓ / minute or less (when balanced at output 100%)									
Accuracy, Dead band	Model No.	KKP25(kgf/cm ² abs.)		KKP26(kgf/cm ² abs.)		KKP27(mmHg abs.)		KKP28(mmHg abs.)		
	Span	0.35 to less than 0.7	0.7 or over	0.1 to less than 0.2	0.2 or over	25 to less than 50	50 or over	5 to less than 10	10 to less than 70	70 or over
	Accuracy (%FS)	±1	±0.5	±1	±0.5	±1	±0.5	±1	±0.5	±0.75
	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									
Construction	Dustproof and waterproof, meets				IEC IP54, NEMA Type 3R, JIS F8001 Class 3 splashproof, JIS C0920 rainproof					
Materials	Bellows:		SUS316							
	Wetted parts gasket:		Teflon							
	Cover:		Carbon steel (SF45A) or SUS304							
	Transmitter case:		Aluminium alloy							
Finish	Acryl baking finish Color: Light beige (MUNSELL 4Y 7.2 / 1.3)									
Mounting	On vertical or horizontal 2-inch pipe.									
Net weight	Approx. 8kg (add 0.8 kg for air-set).									

Optional Specifications

Item	Specifications		
(1) Suppression and elevation	(unit: KKP25/26: kgf/cm ² abs. KKP27/28: mmHg abs.)		
	Model No.	Span	Elevation (max.)
	KKP25	0.35 - 7	6
	KKP26	0.1 - 2	1.8
	KKP27	25 - 500	475
	KKP28	5 - 100	95
(note: elevation + span ≤ maximum pressure)			
(2) Air-set (filter and pressure regulator)	Primary pressure:	2-9.9 kgf/cm ²	
	Secondary pressure:	1.4 kgf/cm ²	
	Filter mesh diameter:	5 microns	
	Connections:	Rc ¼ or ¼ NPT internal thread	

Model Number Table

Ex: KKP25-22A1-5.7

Basic Model No.	Cover Mat'l	Bellows Mat'l	Air Piping Connection	Pneumatic Signal. Gauge Scale Unit	Options	Description
KKP 25						0-0.35 ~ 0-7 kgf/cm ² abs.
KKP 26						0-0.1 ~ 0-2 kgf/cm ² abs.
KKP 27						0-25 ~ 0-500 mmHg abs.
KKP 28						0-5 ~ 0-100 mmHg abs.
	-1					Carbon steel (SF45A) [KKP27/28 only]
	-2					SUS316
		2				SUS316
			A			Rc ¼ internal thread
			B			¼ NPT internal thread
				1		0.2-1.0 kgf/cm ²
				2		3-15 psi
					-X	No option
					-5	Elevation
					-7	Air-set

Dimensions

(Unit: mm)

