

MODEL PKD PRESSURE LEVEL TRANSMITTER



Features

- Flat face to avoid residual liquid
- Plastic flange to achieve light weight
- Wide variety of flange materials to suit specific application
- No need for Teflon film sheet due to the plastic flange of high corrosive resistance
- Easy start-up with no adjustment or setting

General Description

Model PKD series, pressure level transmitter, is integral type of continuous liquid transmitter. The measuring depth is selected by 0 to 4m or 0 to 10m. The material of flange is available with PP, PVC, CPVC, 304SS, and 316SS to suit many of specific application such as waste water, chemical, purified water, and so on. Model PL2500 is available to connect with PKD series to supply 24V DC power.

Operational Description

The diaphragm at the center of flange, FKM for plastic flanges and 316LSS for metal flanges, detects the liquid pressure in proportional to the liquid level. The semiconductor pressure sensor converts the pressure into current signal, and outputs 4 to 20mA DC. In order to compensate for atmospheric pressure, the housing has a vent to automatically correct the detection errors caused by the change in atmospheric pressure.

Specifications

Model	PKD121S PKD131S	PKD121S6 PKD131S6	PKD121P PKD131P	PKD121V PKD131V	PKD121HV PKD131HV	
Description	2-wire			2-wire		
Drawing						
Mounting	JIS10K50A			JIS10K50A Equivalent		
Measuring Range	4m, 10m, 35m					
Supply Power	24V DC $\pm 10\%$					
Output	4 to 20mA DC					
Load Resistive	500 Ω Max.					
Operating Temperature	Detection Face	0 to 70°C				
	Housing	0 to 50°C				
Accuracy	PKD121 $\pm 0.2\%$ F.S., PKD131 $\pm 0.1\%$ F.S.					
Material	Flange	304SS	316SS	PP	PVC	CPVC
	Diaphragm	316LSS			FKM	
	Housing	PVC				
Cable Entry	G3/4 equivalent					
Protection	Housing	IP65				
	Wetted part	IP68				
Connected Converter	PL2500, MP2000					

Converter

Model	PL2500	MP2000
Drawing		
Supply Power	85 to 264V AC, 50/60Hz	100 to 240V AC $\pm 10\%$ 50/60Hz
Power Source	24V DC	24V DC
Power Consumption	Approx. 3VA (at 20mA output)	Approx. 20VA Max.
Input	4 to 20mA DC (2-wire)	4 to 20mA DC
Output	4 to 20mA DC	4 to 20mA DC
Amplification	1 to 5 times	-
Load Resistance	550 Ω Max.	600 Ω Max.
Operating Temperature	-10 to 50°C	-5 to 50°C
Material	PBT	ABS
Mounting	35mm DIN rail	Panel mounting, In conjunction with DIN43 700-96x96 (Panel cut-out: 92mmx92mm)