



Model: PDPT33;
standard type for low differential pressure.

The pneumatic type transmitters executed with a combination of vector balance mechanism and in volute mechanism.

The pneumatic transmitters are featured by high resistance against adverse environments, high turn-down ratio, high accuracy, and simple maintenance.

Description	Technical specifications	
Adjustable range	PDPT33: 0-50 to 0-600 mmH ₂ O	
Process connection	Rc1/4" or 1/4" NPT.F	
Air supply connection	Rc1/4" or 1/4" NPT.F	
Air supply pressure	1,4 ±0,14 bar	
Output	0,2-1 bar or 3-15 psi	
External load	ID 4 mm x length 3 m +20 cm ³ or more	
Air supply capacity	20 NI/minute or more, with 50 mmHG change	
Air consumption	5 NI/minute or less (when balanced at output 100%)	
Accuracy	PDPT33	±0,5% FS (for spans 0-100 to 0-600 mmH ₂ O)
		±1,0% FS (for spans 0-50 to 0-less than 100 mmH ₂ O)
Dead band	0,1% FS	
Working pressure	-0,5 to +100 bar (differs by material cover)	
Operating temperature	Body (primary part) -40 to +120°C, process fluid	
	Transmitter (secondary part)-30 to +80°C, ambient	
Operating humidity	10 to 90% RH	
Overload protection	35 bar in either direction	
Construction	Dustproof and waterproof, meets; IEC IP54, NEMA Type 3R, JIS F8001 Class 3 splash proof, JIS C0920 rainproof	
Materials	Center body	304SS
	Wetted parts of center body	316SS, 316L, Monel, Tantalum
	Body cover (chambers)	CS, 316 SS, Monel, PVC (reinforced with 304SS plates, working pressure range -0,1 to 10 bar, operating temperature 0 to 50°C)
	Wetted part gasket	Teflon
	Transmitter case	Aluminium alloy
Finish	Acryl baking finish colour light beige (MUNSELL 4Y7.2/1.3)	
Mounting	On vertical or horizontal 2 inch (50 mm) pipe	
Net weight	Approx. 14,6 kg (+0,8 kg for air set)	

Optional specifications

	Model nr.	Span	Elevation (max)	Suppression (max)
(1) elevation and (2) suppression	PDPT33	50-600	550	600
	Units in mmH ₂ O			
	Elevation + span ≤ max. span, suppression ≤ max. span			
(3) filter pressure regulator	Adjustable output	2-9,9 bar		
	Supply	1,4 bar		
	Filter mesh	5 microns		
	Connections	Rc1/4" or 1/4" NPT.F		

Ordering procedure

Basic model nr.	Cover mat'l		Wetted parts mat'l		Process conn.	Output	Option	Descriptions	
	HP	LP	HP	LP					
PDPT33	---	---	----	----	-----	-----	-----	0-50 to 0-600 mmH ₂ O	
	-1	---	----	----	-----	-----	-----	Carbon Steel (SF45A)	
	-2	---	----	----	-----	-----	-----	316 SS	
	-3	---	----	----	-----	-----	-----	MONEL	
	-5	---	----	----	-----	-----	-----	PVC	
			1	----	----	-----	-----	-----	Carbon Steel (SF45A)
			2	----	----	-----	-----	-----	316 SS
			3	----	----	-----	-----	-----	MONEL
			5	----	----	-----	-----	-----	PVC
				2	----	-----	-----	-----	316 SS (diaphr. 316L SS)
				3	----	-----	-----	-----	MONEL
				4	----	-----	-----	-----	Tantalum
				6	----	-----	-----	-----	316L SS
					2	-----	-----	-----	316 SS (diaphr. 316L SS)
					3	-----	-----	-----	MONEL
					4	-----	-----	-----	Tantalum
					6	-----	-----	-----	316L SS
					A	-----	-----	-----	Rc 1/4" internal thread
					B	-----	-----	-----	1/4" NPT internal thread
							1	-----	0,2-1 bar
							2	-----	3-15 psi
								-X	No option
								-1	Elevation
								-2	Suppression
								-3	Air-set

Dimensions

(Unit: mm)

