



**Model: PDPT44;**  
**standard type for lowest 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	PDPT44: 0-10 to 0-120 mmH <sub>2</sub> O	
Process connection	Rc¼" or ¼" NPT.F	
Air supply connection	Rc¼" or ¼" 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 <sup>3</sup> 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	PDPT44	±0, 5% FS (for spans 0-20 to 0-120 mmH <sub>2</sub> O)
		±1,0% FS (for spans 0-50 to 0-less than 20 mmH <sub>2</sub> O)
Dead band	0,1% FS	
Damping adjustment	Time constant minimum 2 sec. or less, maximum 15 sec. or over	
Working pressure	-0,5 to +5 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	5 bar in either directions	
Construction	Dustproof and waterproof, meets; IEC IP54, NEMA Type 3R, JIS F8001 Class 3 splash proof, JIS C0920 rainproof	
Materials	Center body	Aluminium alloy
	Wetted parts of center body	316SS
	Body cover (chambers)	CS, 316 SS
	Wetted part gasket	Teflon
	Transmitter case	Aluminium alloy
Finish	Acryl baking finish colour light beige (MUNSELL 4Y7.2/1.3)	
Mounting	On vertical 2 inch (50 mm) pipe	
Net weight	Approx. 17,5 kg (+0,8 kg for air set)	

**Optional specifications**

(1) elevation and (2) suppression	<u>Model nr.</u>	<u>Span</u>	<u>Elevation (max)</u>	<u>Suppression. (max)</u>
	PDPT44	10-120	110	120
	Units in mmH <sub>2</sub> 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	Rc¼" or ¼" NPT.F		

## Ordering procedure

Basic model nr.	Cover mat'l		Wetted parts mat'l		Process conn.	Output	Option	Descriptions
	HP	LP	HP	LP				
PDPT44	----	---	-----	-----	-----	-----	-----	0-10 to 0-120 mmH <sub>2</sub> O
	-1	---	-----	-----	-----	-----	-----	Carbon Steel (SF45A)
	-2	---	-----	-----	-----	-----	-----	316 SS
			1	-----	-----	-----	-----	Carbon Steel (SF45A)
			2	-----	-----	-----	-----	316 SS
				2	-----	-----	-----	316 SS (diaphr. 316L SS)
					2	-----	-----	316 SS (diaphr. 316L SS)
					A	-----	-----	Rc1/4" 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)

