

The Series ADPS/EDPS/BDPA HVAC Differential Pressure Switches are designed for pressure, vacuum, and differential pressures. The dual scaled adjustment knob in inches water column and pascals allows changes to the switching pressure to be made without a pressure gage. The ADPS/EDPS/BDPA are available with settings from 0.08 in w.c. (20 Pa) up to 20 in w.c. (5000 Pa). The silicone diaphragm and PA 6.6 body make the series ADPS ideal for use with air and other noncombustible gases. Series EDPS models meet UL508 and are constructed of plenum rated plastics. The series BDPA Adjustable Differential Pressure Alarms offer a versatile range of configurations allowing utilization of their many features including buzzer and LED notification, and battery or line powered. The compact size, adjustment knob and low cost make the ADPS/EDPS/BDPA the perfect choice for HVAC applications.

FEATURES/BENEFITS

- Adjustment knob changes switching pressure easily with a pressure gage reducing components for application
- Concost device makes it an excellent solution in BAS and HVAC applications requiring duct control and monitoring
 Relay contact allows simple integration with DDC or building systems

APPLICATIONS

- Air filter and ventilator monitoring
- Industrial cooling circuits
 Fire-protection damper control
- · Ventilation duct monitoring
- Fan heater overheating protection
 Heat exchanger frost protection

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MODEL CHART - ADPS				
	Set Point Range in w.c. (Pa)	Approx. Dead Band @ Min Set Point in w.c. (Pa)	Approx. Deadband @ Max Set Point in w.c. (Pa)	
ADPS-08-2-N	0.08 to 1.20 (20-300) 0.12 to 1.60 (30-400)	0.04 (10) 0.06 (15)	0.05 (12) 0.09 (23)	
	0.20 to 2.00 (50-500)	0.08 (20)	0.09 (23)	
	0.80 to 4.00 (200-1000)	0.4 (100)	0.5 (130)	
ADPS-06-2-N	2.00 to 10.00 (500-2500)	0.6 (150)	0.8 (200)	
	4.00 to 20.00 (1000-5000)		1.4 (350)	
			Models that include installer kit	
). Installer kit includes two static conduit connection models.	
		factory for bulk packaging o		
MODEL CHAP				
Model	Set Point Range in w.c. (Pa)	Approx. Dead Band @ Min Set Point in w.c. (Pa)	Approx. Dead Band @ Max Set Point in w.c. (Pa)	
EDPS-08-1-N	0.08 to 1.20 (20-300)	0.04 (10)	0.05 (12)	
EDPS-04-1-N	0.12 to 1.60 (30-400)	0.06 (15)	0.09 (23)	
EDPS-03-1-N	0.20 to 2.00 (50-500) 0.80 to 4.00 (200-1000)	0.08 (20)	0.09 (23) 0.5 (130)	
EDPS-05-1-N		0.4 (100) 0.6 (150)	0.8 (200)	
EDPS-07-1-N	4.00 to 20.00 (1000-5000)		1.4 (350)	
Note: For optional M20 cable gland connection, change -1-N to-2-N.				
MODEL CHART - BDPA				
Model	Set Point Range in w.c. (Pa)	Approx. Dead Band @ Min Set Point in w.c. (F		
	0.08 to 1.20 (20 to 300)	0.04 (10)	0.05 (12)	
	0.12 to 1.60 (30 to 400)	0.06 (15)	0.09 (23)	
	0.20 to 2.00 (50 to 500)	0.08 (20)	0.09 (23)	
	0.80 to 4.00 (200 to 1000) 2.00 to 10.00 (500 to 2500		0.5 (130) 0.8 (200)	
	4.00 to 20.00 (1000 to 500		1.4 (350)	
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SPECIFICATIONS Service: Air and non-combustible, compatible gases. Wetted Materials: ADPS: Diaphragm wetted Materials: ADPS: Diapnrag material: Silicone; Housing material: POM; Switch body: PA 6.6; Cover: Polystyrene; EDPS: Diaphragm material: Silicone; Housing material: Switch body: PA 6.6; Cover: Polystyrene; Materials UL 94 V-0 rated. Temperature Limits: Process and ambient temperature from -4 to 185°F (-20 to 85°C).

Storage: -40 to 185°F (-40 to 85°C). Pressure Limits: Max. operating pressure: 40 in w.c. (10 kPa) for all pressure ranges. Switch Type: Single-pole double-throw (SPDT).

	Electrical Rating: Max. 1.5 A res./0.4 A	
	ind./250 VAC, 50/60 Hz; Max. switching	
	rate: 6 cycles/min.	
	Electrical Connections: Push-on screw	
	terminals. M20x1.5 with cable strain	
	relief or optional 1/2" NPT.	
	Process Connections: 5/16" (7.94 mm)	
	outside diameter tubing, 1/4" (6.0 mm)	
0	inside diameter tubing.	
	Enclosure Rating: NEMA 13 (IP54).	
	Mounting Orientation: Vertically,	
	with pressure connections pointing	
	downwards.	
	Mechanical Working Life: Over 10 ⁶	
	switching operations.	
	Weight: 4.4 oz (125 g).	
	Agency Approvals: ETL approved to	
/	UL508 and CSA C22.2#14 (EDPS only).	

ACCESSORIES Model Description

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A-288	"L" type metal mounting bracket with screws

A-280 ¹S" type metal mounting bracket with screws
 A-480 Plastic static pressure tip
 A-481 Installer kit, includes 2 plastic static pressure tips & 7' (2.1 m) of PVC tubing
 A-489 4" straight static pressure tip with flange

A-480

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Process Tubing Options: See page 455 (Gage Tubing Accessories)

PRESSURE