Differential Pressure Switches

ATEX/IECEx APPROVED DIFFERENTIAL PRESSURE SWITCH

The ADPS in Flameproof ATEX/IECEx Enclosure

The Series AT-ADPS ATEX/IECEx Approved Differential Pressure Switch is designed for pressure, vacuum, and differential pressure applications in hazardous areas. 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 switch is available with settings from 0.08 in w.c. (20 Pa) up to 20 in w.c. (5000 Pa). The silicone diaphragm makes this series ideal for use with air and other noncombustible gases. Flameproof enclosures are available in aluminum and can include a glass window for viewing set point status on the adjustment knob.

BENEFITS/FEATURES

- Flameproof enclosure with optional glass window and aluminum housing protects the device in hazardous areas while giving local visibility to set point status

APPLICATIONS

- Hazardous area pressure switch
- Air filter and ventilator monitoring
- Ventilation duct monitoring
- Industrial cooling circuits
- Fire-protection damper control
- Heat exchanger frost protection

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Diaphragm material: Silicone; Housing material: Switch body: PA 6.6 and POM; Cover: Polystyrene; Brass or SS depending on pressure connections chosen.
Temperature Limits: Process and ambient temperature from -4 to 185°F (-20 to 85°C) (Note: Product temperature limits differ from case).
Pressure Limits: See pressure limit chart.
Switch Type: SPDT.
Electrical Rating: Standard: Max. 1.5 A @ 250 VAC, max. switching rate: 6 cycles/min.
Set Point Adjustment: Hand knob on pressure switch inside case. (De-energize before opening case).
Mounting Orientation: Vertically, with pressure connections pointing downwards.
Mechanical Working Life: Over 10^6 switching operations.
Enclosure Rating: IP66.
Housing Material: Aluminum.
Finishing: Texture epoxy coat RAL7015.
Electrical Connections: Two 1/2˝ NPT female. Cable gland not included.
Weight: 10.4 lb (4.7 kg).
ATEX Certificate: EPT 19 ATEX 3192 X.
Agency Approvals: ATEX compliant: 0477 II 2G Ex db IIC T5, T6 Gb -60°C ≤Ta ≤+50°C (T6) -60°C ≤Ta ≤+60°C (T5) II 2D Ex tb III T75 °C Db IECEx Compliant: Ex db IIC T5, T6 Gb -60°C ≤Ta ≤+50°C (T6) -60°C ≤Ta ≤+60°C (T5) Ex tb IIIIC T75°C Db.

MODEL CHART

Example AT -101NA -ADPS -08 -2 -N -W 1 VS0 12 AT-101NA-ADPS-08-2-N-W1VS012 Price

Enclosure AT ATEX/IECEx approved enclosure $760.00
Housing Material 101NA Aluminum enclosure -
Series ADPS ADPS adjustable differential pressure switch -
Range 08 .08 to 1.2 in w.c. (20 to 300 Pa) -
04 .1 to 1.6 in w.c. (30 to 400 Pa) -
03 .2 to 2 in w.c. (50 to 500 Pa) -
05 .8 to 4 in w.c. (200 to 1000 Pa) -
06 2 to 10 in w.c. (500 to 2500 Pa) -
07 4 to 20 in w.c. (1000 to 5000 Pa) -
Connection 2 Internal cable gland -
Switch N 1.5 A @ 250 VAC -
Cover B Blind +62.00
W Glass window -
Port/Valve Material 1 Brass +60.00
2 Stainless steel +135.00
Port/Valve Configurations VSO STD port/no valve +150.00
VLO LD port/no valve +385.00
Cable Entry 12 1/8˝ NPT ANSI/ASME B1.20.1 -

(©) Items are subject to Schedule B discounts.

USA: California Proposition 65
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov