

# Air Pressure Switches



SMD, SMR

## DESCRIPTION

Adjustable vacuum, pressure, and differential air pressure switches.

## APPLICATION

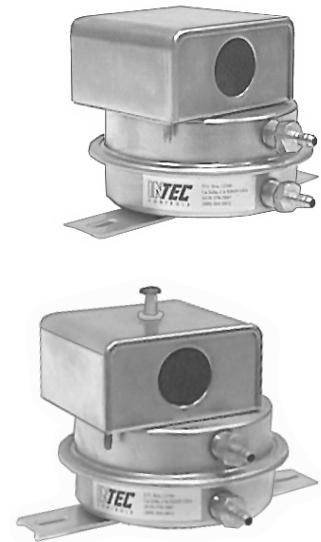
Air pressure control and monitoring of ducts, filters, fans and other devices in ventilation and air conditioning systems.

## FEATURES

- Compact & easy to install
- Accurate & reliable operation
- Adjustable setpoint
- Auto & manual reset

## SPECIFICATIONS

<b>Type of operation</b>	On/Off, single-stage, micro switch
<b>Output</b>	1 SPDT, 125 VAC, 10 A / 277 VAC, 7 A
<b>Trip/setpoint adjustment</b>	Internal screw
<b>Sensing techniques</b>	2 pressure chambers separated by diaphragm
<b>Diaphragm material</b>	Silicone
<b>Permissible ambient temperature</b>	
- Working	-40°F to 170°F (-40°C to 77°C)
- Storage	-40°F to 170°F (-40°C to 77°C)
<b>Wire</b>	
- Connection	Terminal with wire retaining screws
- Size	Maximum 14 AWG (2.5 mm <sup>2</sup> ), solid or stranded
<b>Cable entry</b>	1/2"NPT conduit knockout
<b>Housing</b>	
- Material	Metal, galvanized
- Color	Gold
- Protection	NEMA 1
- Dimensions	Diameter 3.7 x 3.0 in. (93 x 76 mm)
<b>Installation</b>	Surface mounted
<b>Pressure port connection</b>	Two 1/4 in. barb connectors
<b>Ship weight</b>	0.5 lb (0.25 kg)
<b>Listing/approvals</b>	UL-Recognized, CSA



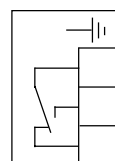
Adj. Setpoint Range* Inch WC (Pa)	Fixed Switching Diff. Inch WC (Pa)	Max. Operating Pressure Inch WC (Pa)	Reset	Part Number
0.17 to 6.0 (40 to 1493)	8-17% of trip/setpoint** push button reset	20 (5000)	Auto	8021204063 (SMD)
0.17 to 6.0 (40 to 1493)		20 (5000)	Manual	8621204007 (SMR)

\* Factory set trip/setpoint at 0.17 in. WC (42 Pa). Setting and calibration made at 70°F (21°C) with diaphragm in vertical position, and port connection pointing downwards. If mounted in horizontal position, micro switch must be on the top. When mounted in this position, the minimum sensitivity may be higher than that specified.

\*\* 0.015 to 0.03 in. WC (3.7 to 7.5 Pa) switching differential at setpoint of 0.17 in. WC (40 Pa),  
0.5 in. WC (124.4 Pa) switching differential at setpoint of 6.0 in. WC (1493 Pa).

## WIRING DIAGRAM

SMD/R



Ground  
Common  
NO  
NC

Pressure increase, contact connection: Common to NO  
Pressure decrease, contact connection: Common to NC

Pressure port, closest to the bottom = high pressure  
Pressure port, closest to the micro switch = low pressure