

# AX-ADPT-D

Air Differential Pressure Transmitter

# AXIO



## Product Overview

The AX-ADPT-D air differential pressure transmitters are a cost effective solution for air flow monitoring applications.

The units are available in a number of pressure ranges and can be used for static pressure monitoring applications by simply allowing one of the ports to remain open to normal atmospheric pressure. AX-ADPT-DA units are suitable for use with air, non aggressive and non-combustible gases.

## Features

- Cost-effective solution
- Multiple ranges available
- 0-10Vdc/4-20mA output
- Lightweight

## Product Specifications

Power Supply:	Voltage:	16 to 36Vdc
	Current:	20 to 28Vac
Output:		2 wire 4-20mA loop powered, loop resistance 0-1200Ω maximum
	-V:	3 wire 0-5/0-10Vdc, load resistance 0-1000Ω maximum
Accuracy:		+/- 2% for 50Pa to 5000Pa
Response time:		Adjustable 0.5s - 15s time constant, provides 95% response time of 1.5s - 45s
Maximum Pressure:		13.8kPa operation, burst 68.9kPa
Pressure Connection:		Plastic pipe suitable for use with 5mm ID plastic tube
Electrical Connection:		Screw terminals suitable for use with cable up to 1.5mm <sup>2</sup>
Zero & Span adjustment:		Digital push button
Stability:		< ±1% FS/Year
Protection:		IP20
Ambient Temp range:		0°C to 50°C
Weight & Dimensions:		51g, 84.5mm (H) x 61mm (W) x 26mm (D)
Country of Origin:		USA

## Order Codes

4-20mA output	0-5/10Vdc Output	
AX-ADPT-D1	AX-ADPT-D1-V	Air Differential Pressure Transmitter 0-250Pa
AX-ADPT-D2	AX-ADPT-D2-V	Air Differential Pressure Transmitter 0-500Pa
AX-ADPT-D3	AX-ADPT-D3-V	Air Differential Pressure Transmitter 0-750Pa
AX-ADPT-D4	AX-ADPT-D4-V	Air Differential Pressure Transmitter 0-1250Pa
AX-ADPT-D5	AX-ADPT-D5-V	Air Differential Pressure Transmitter 0-2500Pa

© Copyright Annicom. All Rights Reserved

**Annicom Ltd**

Unit 21, Highview, Bordon, Hampshire. GU35 0AX

Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799

Email: sales@annicom.com Website: www.annicom.com

# AX-ADPT-D

Air Differential Pressure Transmitter



## Installation

The AX-ADPT-D should be installed by a suitably qualified technician in accordance with prevailing regulations and any guidelines for the equipment to which it is to be connected. The AX-ADPT-D is not suitable for use with mains Voltage.

The AX-ADPT-D has three fixing lugs moulded into the base for use with screws up to 4mm in diameter. When fixing the switch, care should be taken not to stress the unit. The switch is designed (and calibrated) to be mounted on a vertical plane with the gland and pressure connections at the bottom of the unit.

## Connections

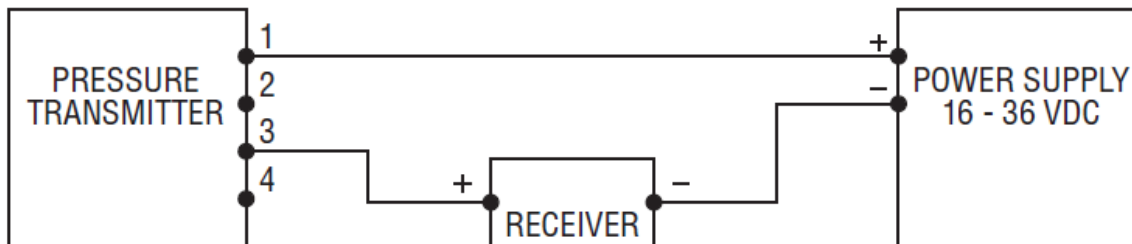
### Pressure:

Pressure connections are made by pushing 5mm PVC tube over the pressure pipes. Connect the high pressure side to the inlet pipe marked +.

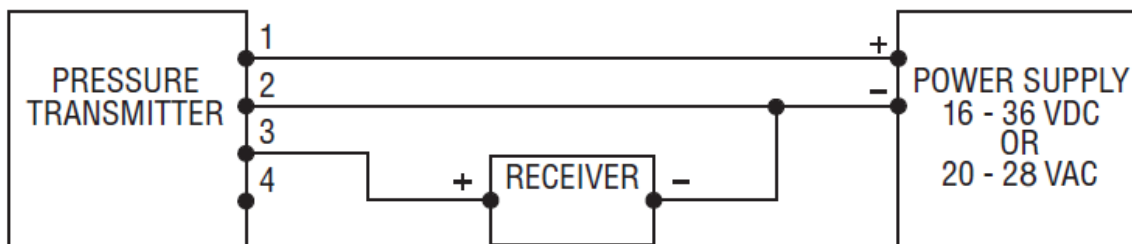
### Electrical:

The sensor should be wired as per the appropriate diagram below.

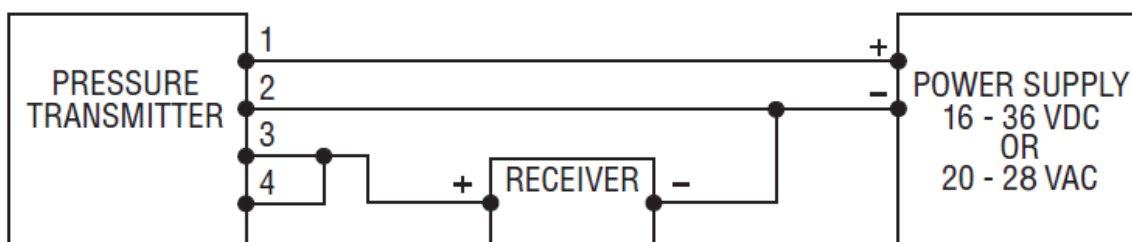
### 2-WIRE CONNECTIONS (4 to 20 mA)



### 3-WIRE CONNECTIONS (4 to 20 mA)



### 3-WIRE CONNECTIONS (0-5/10 VDC)

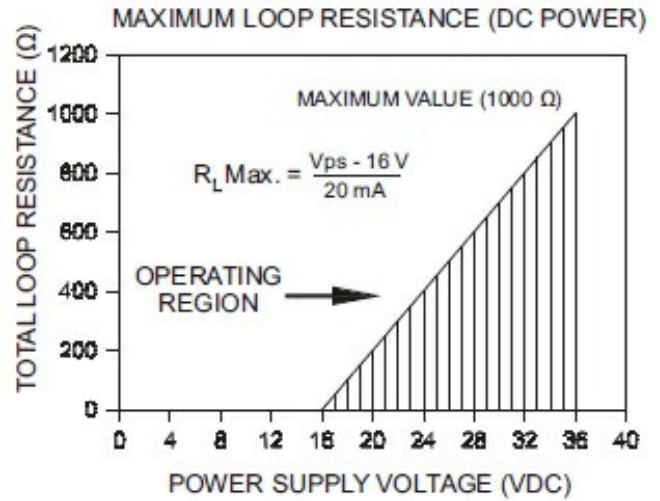
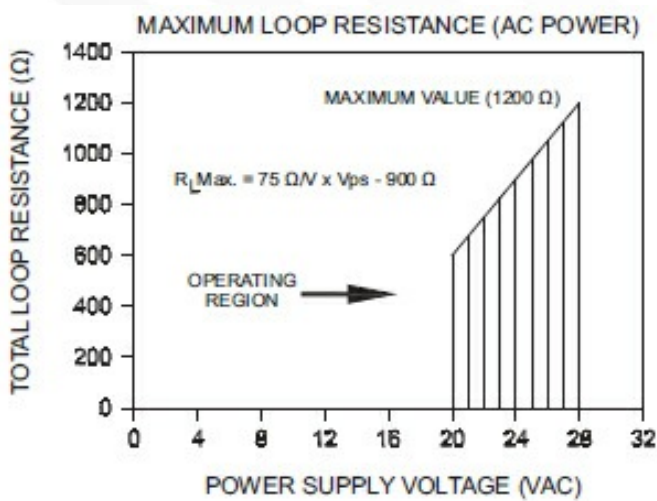


# AX-ADPT-D

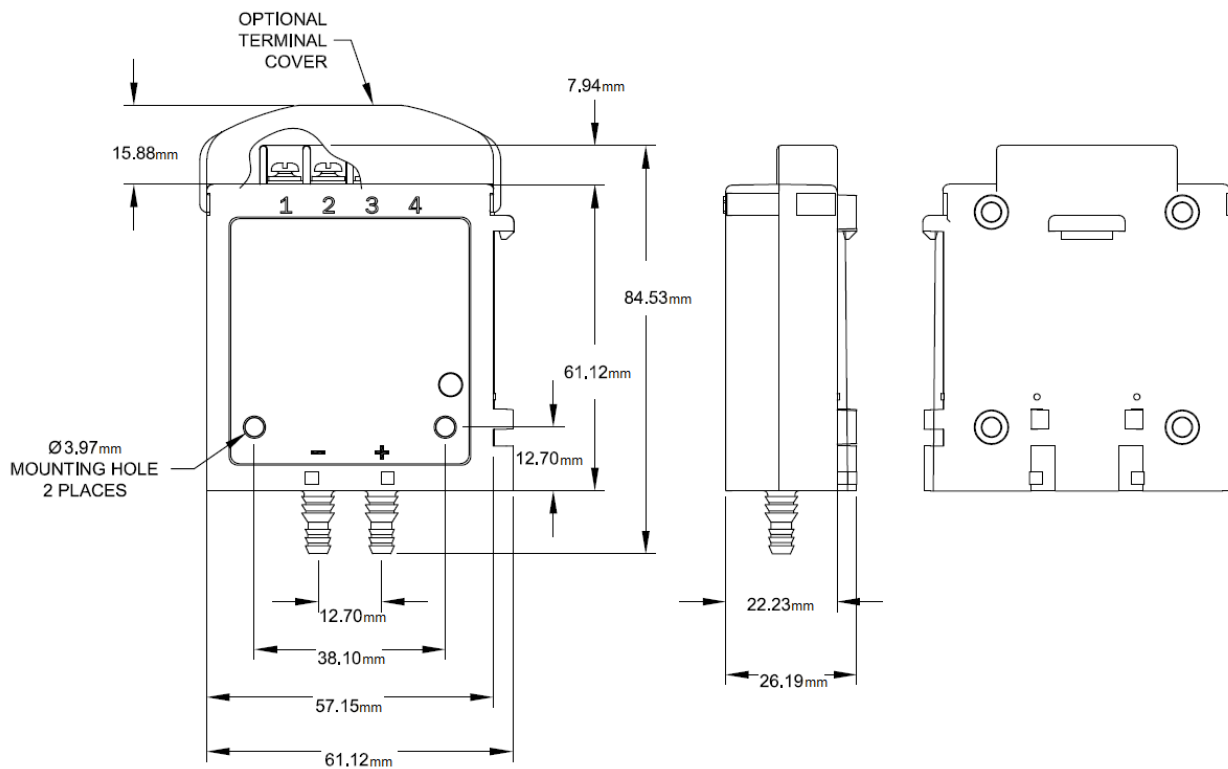
Air Differential Pressure Transmitter



## Operating Resistance



## Dimensions



## Datasheet Contents

Every effort has been taken in the production of this data sheet to ensure accuracy. Axio do not accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.