

Differential Pressure Sensor Air

Differential pressure transmitter with 8 selectable ranges and outputs 0...5 V, 0...10 V or 4...20 mA. For monitoring the differential pressure of air and other non-flammable and non-aggressive gases. Monitoring air filters, fans, industrial cooling air cycles, control of air and fire dampers. Options available with LCD display. IP65 / NEMA 4X rated enclosure.





Type Overview					
	Туре	Measuring range pressure	Output signal active pressure	Burst pressure	Display type
	22ADP-584	02500 Pa / 10 inch WC	DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC	-
	22ADP-584L	02500 Pa / 10 inch WC	DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC	LCD

Technical Data		
Electrical Data	Power supply DC	1524 V, ±10%, 1.1 W
	Power supply AC	24 V, , ±10%, 1.7 VA
	Electrical connection	Removable spring loaded terminal block max. 2.5 mm ²
	Cable entry	Cable gland with strain relief Ø68 mm (1/2" NPT conduit adapter included)
Functional Data	Sensor Technology	piezo measuring element
	Multirange	8 measuring ranges selectable
	Output signal active note	Output DC 05/10 V selectable with switch voltage output: min. 10 k Ω load current output: max. 500 Ω load
	Display	LCD, 1.14x1.38" [29x35 mm] with backlight measured values: Pa, inchWC (configurable)
	Application	air
	Response time	adjustable 0.8s or 4.0s



Technical data sheet	22ADP-584
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Measuring Data

Materials

Safety Data

Measuring values	differential pressure			
Measuring fluid	air and non-aggressive gases			
Measuring range settings pressure	Setting	range [Pa]	range [inch WC]	Factory
	S0	02500	010	~
	S1	02000	80	
	S2	01500	06	
	S3	01000	04	
	S4	0500	02	
	S5 S6	0250 0100	01 00.4	
	S7	-100100	-0.40.4	
Accuracy pressure	measuring range ≤2 inch WC (500 Pa): ±0.02 inch WC (±5 Pa) measuring range >2 inch WC (500 Pa): ±0.04 inch WC (±10 Pa)			
Cable gland	PA6, black			
Housing	cover: lexan, orange base: lexan, orange seal: 0467 NBR70, black UV resistant			
Ambient humidity	max. 95% r.H., non-condensing			
Ambient temperature	15120°F [-1050°C]			
Fluid temperature	15120°F [-1050°C]			
Protection class IEC/EN	III safety extra-low voltage (selv)			
Protection class UL	UL Class 2 Supply			
EU Conformity	CE Marking			
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-6			
Certification UL	cULus acc. to UL60730-1A/-2-6, CAN/CSA E60730-1:02			
Degree of protection IEC/EN	IP65			
Degree of protection NEMA/UL	NEMA 4X			
Quality Standard	ISO 9001			

Safety Notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Remarks

Manual Zero-Point Calibration

In normal operation zero-point calibration should be executed every 12 months.

Attention! For executing zero-point calibration the power supply must be connected one hour before.

- Release both connection tubes from the pressure terminals + and -
- · Press the button until the LED lights permanently
- Wait until the LED flashes again and reinstall the connection tubes to the pressure ports (note + and -)



Scope of delivery

Scope of delivery Description

Туре

Mounting plate L housing

Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for

A-22D-A10 A-22AP-A08

22ADP-.. Dowel

Screws

1/2" NPT conduit adapter

Accessories

Optional accessories

Type

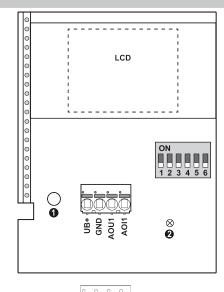
Duct connector, Metal, L 1.5", Tube connection 0.2"

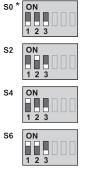
A-22AP-A01

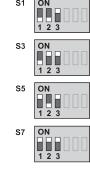
Duct connector, Metal, L 4", Tube connection 0.2"

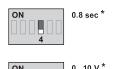
A-22AP-A03

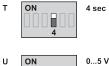
Wiring Diagram

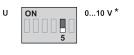








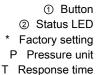




Pa 3

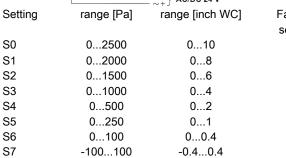
ON





U Output signal



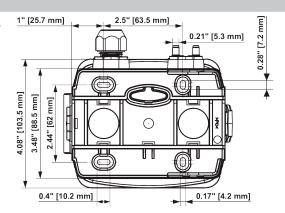


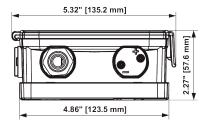




Dimensions

Dimensions





 Type
 Weight

 22ADP-584
 0.63 lb [0.29 kg]

 22ADP-584L
 0.66 lb [0.30 kg]