

**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 nonflammable and non-aggressive gases. Monitoring air filters, fans, industrial cooling air cycles, control of air and fire dampers. Options available with LCD display, autozero feature. IP65 / NEMA 4X rated enclosure.

# Technical data sheet

# 22ADP-584.





### **Type Overview**

Туре	Measuring range pressure	Measuring range pressure	Output signal active pressure	Burst pressure	Display type	Additional features
22ADP-584	02500 Pa	010 inch WC	05 V, 010 V, 420 mA	40 kPa / 160 inch WC	-	-
22ADP-584A	02500 Pa	010 inch WC	05 V, 010 V, 420 mA	40 kPa / 160 inch WC	-	Auto-Zero
22ADP-584B	02500 Pa	010 inch WC	05 V, 010 V, 420 mA	40 kPa / 160 inch WC	LCD	Auto-Zero
22ADP-584L	02500 Pa	010 inch WC	05 V, 010 V, 420 mA	40 kPa / 160 inch WC	LCD	-

### **Technical Data**

Electrical Data	Nominal voltage	AC/DC 24 V
	Nominal voltage range	AC 1929 V / DC 1535 V
	Power consumption AC	1.7 VA
	Power consumption DC	1.1 W
	Electrical connection	Removable spring loaded terminal block ma 2.5 mm <sup>2</sup>
	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 05/10 V selectable with switch Voltage output: min. 10 k $\Omega$ load current output: max. 500 $\Omega$ load
	Display	LCD, 1.14x1.38" [29x35 mm] with backlight measured values: Pa, inchWC (configurable
	Application	air
	Response time	adjustable 0.8 s or 4.0 s



**Technical data sheet** 

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Measuring Data	Measuring values	differential pressure			
	Measuring fluid	air and non-aggressive gases			
	Measuring range settings pressure	Setting range [Pa] range [inch WC] Factory setting			
		S0 02500 010 ✔			
		S1 02000 08			
		S2 01500 06			
		S3 01000 04			
		S4 0500 02			
		S5 0250 01			
		S6 0100 00.4			
		S7 -100100 -0.40.4			
	Accuracy pressure	measuring range ≤2 inch WC: ±0.02 inch WC			
		measuring range >2 inch WC: ±0.04 inch WC			
Materials	Cable gland	PA6, black			
	Housing	cover: lexan, orange			
		base: lexan, orange			
		seal: 0467 NBR70, black			
		UV resistant			
Safety Data	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.





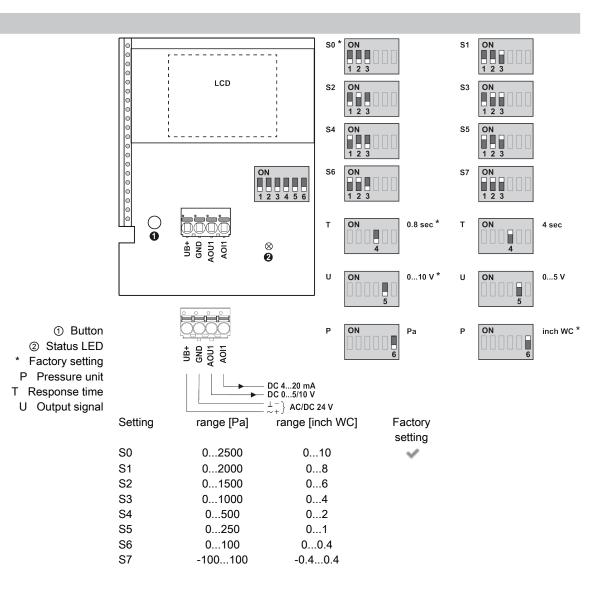
Automated Zero-Point calibration (Auto- Zero)	Transmitters equipped with the auto-zero calibration are maintenance-f	ree.
,	The auto-zero calibration electronically adjusts the transmitter zero ever function eliminates all output signal drift due to thermal, electronic or me The auto-zero adjustment takes approx. 4 seconds after which the devi normal measuring mode. During the 4 second adjustment period, the or values will freeze to the latest measured value.	echanical effects. ce returns to its
Manual Zero-Point Calibration	In normal operation zero-point calibration should be executed every 12	months.
	<ul> <li>Attention! For executing zero-point calibration the power supply must be hour before.</li> <li>Release both connection tubes from the pressure terminals + and -</li> <li>Press the button until the LED lights permanently</li> <li>Wait until the LED flashes again and reinstall the connection tubes to a (note + and -)</li> </ul>	
Scope of delivery		
Scope of delivery Scope of delivery	Description	Туре
	Description           Mounting plate L housing           Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for           22ADP	<b>Type</b> A-22D-A10 A-22AP-A08
	Mounting plate L housing Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for	A-22D-A10
	Mounting plate L housing Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for 22ADP Dowel Screws	A-22D-A10

Duct connector, Metal, L 1.5", Tube connection 0.2" Duct connector, Metal, L 4", Tube connection 0.2"

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A-22AP-A01
A-22AP-A03

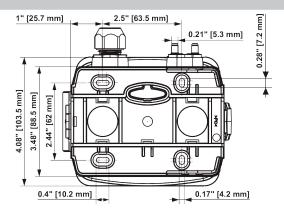


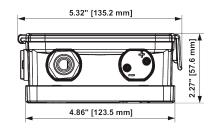
Wiring Diagram





Dimensions





Туре	Weight
22ADP-584	0.63 lb [0.29 kg]
22ADP-584A	0.63 lb [0.29 kg]
22ADP-584B	0.66 lb [0.30 kg]
22ADP-584L	0.66 lb [0.30 kg]