

Technical data sheet

22ADP-586.

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. IP65 / NEMA 4X rated enclosure.





Type Overview

	Туре	Measuring range pressure	Output signal active pressure	Burst pressure	Display type
	22ADP-586	07000 Pa / 28 inch WC	DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC	-
	22ADP-586L	07000 Pa / 28 inch WC	DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC	LCD
Technical Data					
Electrical Data	Electrical Data Power supply DC		152	4 V, ±10%, 1.1 W	
	Power supply A	AC	24 V,	, ±10%, 1.7 VA	
		nection	Remo 2.5 m		l terminal block max.
	Cable entry			gland with strain re conduit adapter inclu	elief Ø68 mm (1/2" uded)
Functional Data	Sensor Techn	ology	piezo	measuring element	:
	Multirange		8 mea	asuring ranges seled	ctable
	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		with b	1.14x1.38" [29x35 r acklight ured values: Pa, inc	nm] hWC (configurable)
	Application		air		
	Response time	9	adjust	able 0.8s or 4.0s	



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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] Factor setti	-	
		S0 07000 028 ✔)	
		S1 05000 020		
		S2 04000 016		
		S3 03000 012		
		S4 02500 010		
		S5 02000 08 S6 01500 06		
		S7 01000 04		
	Accuracy pressure	measuring range ≤8 inch WC (2000 Pa): ±0.04 inch WC (±10 Pa) measuring range >8 inch WC (2000 Pa): ±0 inch WC (±25 Pa)).1	
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.

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 -)



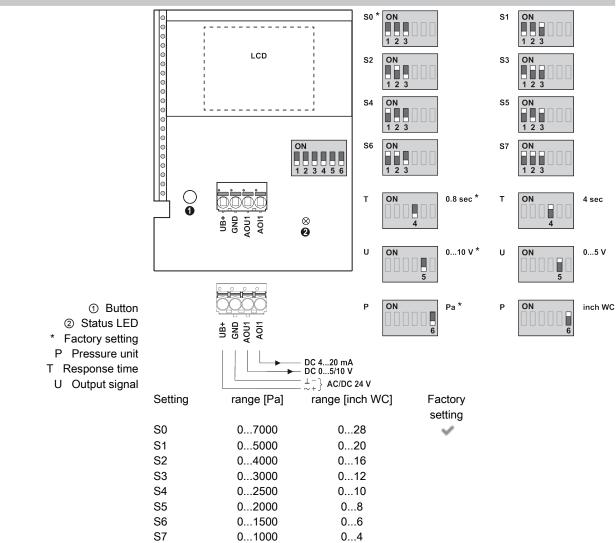
Scope of delivery

	Scope of delivery	Description	Туре	
		Mounting plate L housing	A-22D-A10	
		Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for 22ADP	A-22AP-A08	
		Dowel		
		Screws		
		1/2" NPT conduit adapter		
Accessories				

Optional accessories

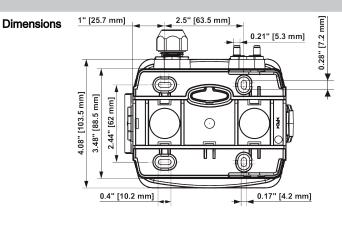
Description	Туре
Duct connector, Metal, L 1.5", Tube connection 0.2"	A-22AP-A01
Duct connector, Metal, L 4", Tube connection 0.2"	A-22AP-A03

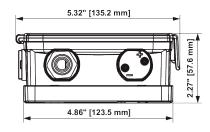
Wiring Diagram





Dimensions





Туре	Weight
22ADP-586	0.63 lb [0.29 kg]
22ADP-586L	0.66 lb [0.30 kg]