

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-586	07000 Pa / 28 inch WC	DC 010 V, DC 05 V,	40 kPa / 160 inch WC	-
		IIICII WO	420 mA	TOO IIICH WO	

22ADP-586L 0...7000 Pa / 28 Inch WC

DC 0...10 V, 40 kPa / LCD DC 0...5 V, 160 inch WC 4...20 mA

Technical Data			
Electric	al Data Power su	ipply DC	1524 V, ±10%, 1.1 W
	Power su	ipply AC	24 V, , ±10%, 1.7 VA
	Electrical	I connection	Removable spring loaded terminal block max. 2.5 mm ²
	Cable en	try	Cable gland with strain relief Ø68 mm (1/2" NPT conduit adapter included)
Functional Data	al Data Sensor T	echnology	piezo measuring element
	Multirang	ge	8 measuring ranges selectable
	Output si	ignal 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	on	air
	Respons	e time	adjustable 0.8s or 4.0s



Technical data sheet 22ADP-586...

Measuring Data

Materials

Safety Data

Measuring values	differen	tial pressure		
Measuring fluid	air and	non-aggress	ive gases	
Measuring range settings pressure	Setting	range [Pa]	range [inch WC]	Factory
	S0	07000	028	~
	S1	05000	020	
	S2	04000	016	
	S3	03000	012	
	S4 S5	02500	010 08	
	S5 S6	02000 01500	08 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): ±0.1 inch WC (±25 Pa)		,	
Cable gland	PA6, bla	ack		
Housing	base: le	exan, orange exan, orange e67 NBR70, t stant		
Ambient humidity	max. 95	5% 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		-6	
Certification UL	cULus acc. to UL60730-1A/-2-6, CAN/CSA E60730-1:02		/CSA	
Degree of protection IEC/EN	IP65			
Degree of protection NEMA/UL	NEMA 4X			
Quality Standard	ISO 900	01		

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 22ADP-..

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

Dowel

Screws

1/2" NPT conduit adapter

Accessories

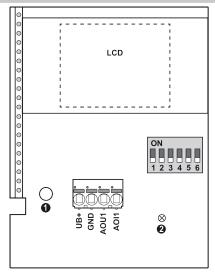
Optional accessories

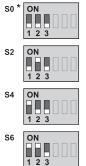
Description

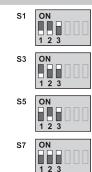
escription	Туре
escription	ıype

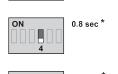
Duct connector, Metal, L 1.5", Tube connection 0.2" A-22AP-A01 Duct connector, Metal, L 4", Tube connection 0.2" A-22AP-A03

Wiring Diagram



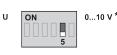


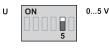




Factory setting





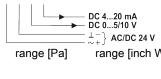








① Button ② Status LED Factory setting P Pressure unit T Response time U Output signal

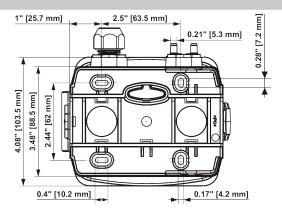


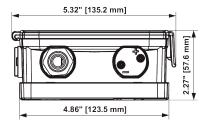
range [Pa]	range [inch WC]
07000	028
05000	020
04000	016
03000	012
02500	010
02000	08
01500	06
01000	04
	07000 05000 04000 03000 02500 02000 01500



Dimensions

Dimensions





 Type
 Weight

 22ADP-586
 0.63 lb [0.29 kg]

 22ADP-586L
 0.66 lb [0.30 kg]