Display type



Type Overview

Differential Pressure Sensor (Air)

Differential pressure transmitter with 8 selectable ranges and outputs 0 to 5/10 V or 4 to 20 mA. NEMA 4X / IP65 rated enclosure. 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. Available with LCD display.



Measuring range

rel. pressure

Type

Media

Output signal

active pressure

air

Overpressure

range



	22ADP-584 22ADP-584L	-	DC 010 V, DC 05 V, 420 mA DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC 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 connec	tion	removable spring loaded termina		erminal block max.
	Cable entry		11 GA [2.5 mm²]		
			Cable gland with strain relief Ø68 mm (1/2" NPT conduit adapter included)		
Functional Data	Sensor Technology Multirange Output signal active note Display		piezo measuring element		
			8 fields selectable		
			output DC 0 to 5/10 V selectable with switch voltage output: min. 10 k Ω load		
			current output: max. 500 Ω load		
			LCD, 1.14" x 1.38" [29 x 35 mm] with backlight measured values: Pa. inchWC (configurable)		
			meas	ouieu values. Fa, IIICII	vvo (coringulable)



Measuring [

easuring Data	Measuring values	differen	differential pressure			
	Measuring media	air and	air and non-aggressive gases			
	Measuring range settings pressure	Setting	range [Pa]	range [inch WC]	Factory setting	
		S0	02500	010	~	
		S1	02000	80		
		S2	01500	06		
		S3	01000	04		
		S4	0500	02		
		S5	0250	01		
		S6	0100	00.4		
		S7	-100100	-0.40.4		
	Accuracy pressure		ing range ≤2 C (±5 Pa)	inch WC (500 Pa): ±0.02	
			ing range >2 C (±10 Pa)	inch WC (500 Pa): ±0.04	
Materials	Cable gland	PA6, bla	PA6, black			
	Housing	base: le	exan, orange exan, orange 67 NBR70, I			
Safety Data	Ambient humidity	max. 95	5% RH non-c	condensing		
	Ambient temperature	15120	15120 °F [-1050 °C]			
	Medium temperature	15120	°F [-1050	°C]		
	Protection class IEC/EN	III safet	III safety extra-low voltage (selv)			
	Protection class UL	UL Clas	s 2 Supply			
	EU Conformity	CE-Ken	CE-Kennzeichnung			
	Certification IEC/EN	IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-6			
	Certification UL	E60730 2006/95	cULus acc. to UL60730-1A/-2-6, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC, NEMA 4X, IP65, UL Enclosure Type 4X		and	
	Degree of protection IEC/EN	IP65	IP65			
	Degree of protection NEMA/UL	NEMA 4	NEMA 4X			
	Quality Standard	ISO 900)1			

Safety Notes



The installation and assembly of electrical equipment should only be performed by authorized personnel.

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 human, animals or assets.

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

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- · This data sheet and installation manual



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

mounting plate

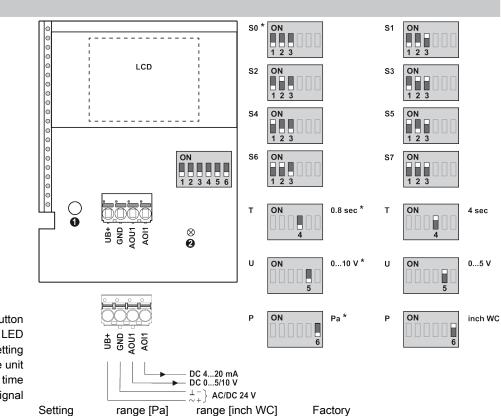
dowel screws

1/2" NPT conduit adapter

Accessories

Optional accessories	Description	Туре	
	Duct connector (metal) 1.57" [40 mm]	A-22AP-A01	
	Duct connector (metal) 4" [100 mm]	Δ_22ΔΡ_Δ03	

Wiring Diagram



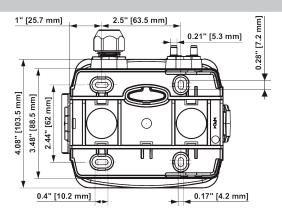
① Button
② Status LED
* Factory setting
P Pressure unit
T Response time
U Output signal

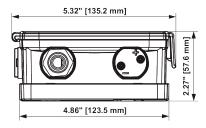
		} AC/DC 24 V	
Setting	range [Pa]	range [inch WC]	Factory setting
S0	02500	010	~
S1	02000	80	
S2	01500	06	
S3	01000	04	
S4	0500	02	
S5	0250	01	
S6	0100	00.4	
S7	-100100	-0.40.4	



Dimensions

Dimensions





Type	Probe length	Weight
22ADP-584	-	0.63 lb [0.29 kg]
22ADP-584L	-	0.66 lb [0.30 kg]