

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-184.





Type Overview

Туре	Measuring range pressure	Output signal active pressure	Burst pressure	Display type	Additional features
22ADP-184	02500 Pa	DC 010 V, DC 05 V, 420 mA	40 kPa	-	-
22ADP-184A	02500 Pa	DC 010 V, DC 05 V, 420 mA	40 kPa	-	Auto-Zero
22ADP-184B	02500 Pa	DC 010 V, DC 05 V, 420 mA	40 kPa	LCD	Auto-Zero
22ADP-184L	02500 Pa	DC 010 V, DC 05 V, 420 mA	40 kPa	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	
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, 29x35 mm with backlight Measured values: Pa, inchWC (configurable)	
	Application	Air	
	Response time	Adjustable 0.8s or 4.0s	



Technical data sheet

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Measuring data	Measuring values	Differer	itial pressure)	
	Measuring fluid	Air and	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		•	to the reference d	evice
				00 Pa: ±5 Pa	
				600 Pa: ±10 Pa	
Materials	Cable gland	PA6, bl	ack		
	Housing	Cover:	Lexan, orang	je	
			Lexan, oran	-	
			467 NBR70,	black	
		UV resi			
Safety data	Ambient humidity	Max. 95	5% r.H., non-	condensing	
	Ambient temperature	-1050	°C [15120	°F]	
	Fluid temperature	-1050	°C [15120	°F]	
	Protection class IEC/EN	III Safet	y Extra-Low	Voltage (SELV)	
	Protection class UL	UL Clas	s 2 Supply		
	EU Conformity	CE Mar	king		
	Certification IEC/EN	IEC/EN	60730-1 and	d IEC/EN 60730-2	-6
	Certification UL	cULus a E60730		730-1A/-2-6, CAN	/CSA
	Degree of protection IEC/EN	IP65			
	Degree of protection NEMA/UL	NEMA 4	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.



A-22G-A01.1

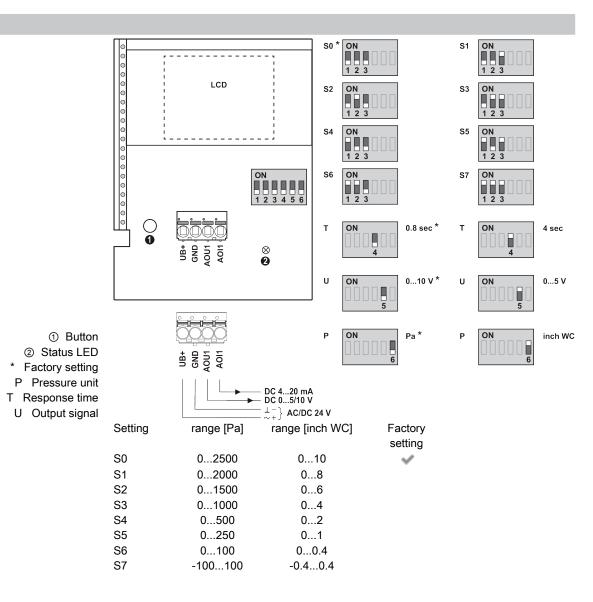


Remarks			
Automated Zero-Point calibration (Auto- Zero)			
Manual Zero-Point calibration	values will freeze to the latest measured value. In normal operation zero-point calibration should be executed every 12	months	
	 Attention! For executing zero-point calibration the power supply must be connected 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 Mounting plate L housing Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for 22ADP Dowel Screws	Type A-22D-A10 A-22AP-A08	
Accessories			
Optional accessories	Description	Туре	
	Duct connector, Metal, L 40 mm, Tube connection 5 mm Duct connector, Metal, L 100 mm, Tube connection 5 mm	A-22AP-A02 A-22AP-A04	

Connection adapter, M20, for cable 1 x 6 mm, Multipack 10 pcs.

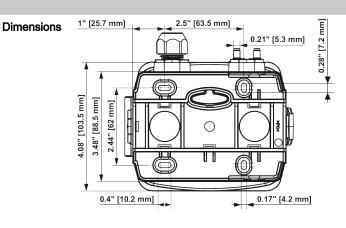


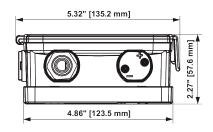
Wiring diagram





Dimensions





Туре	Weight
22ADP-184	0.29 kg
22ADP-184A	0.29 kg
22ADP-184B	0.29 kg
22ADP-184L	0.30 kg