

Differential Pressure Sensor Air Dual

Differential pressure transmitter with two independent measuring systems. With each 8 selectable ranges and one output 0...5 V/10 V. For monitoring the differential pressure of air and other non-flammable and non-aggressive gases. Typical application in HVAC systems for monitoring air filters, fans V-belts or fire and smoke control dampers. Options available with LCD display. IP65 / NEMA 4X rated enclosure.

Technical data sheet

22ADP-124..





Type Overview

	Туре	Measuring range pressure [Pa]	Output signal active pressure	Burst pressure	e Display	type	
	22ADP-124D	02500	05 V, 010 V	40 kPa	-		
	22ADP-124F	02500	05 V, 010 V	40 kPa	LCD		
Technical Data							
Electrical data	Nominal voltage		AC/DC 24 V				
	Nominal voltage range		AC 1929 V / DC 1535 V				
	Power consump	tion AC	1.7 VA				
	Power consumption DC		1.1 W				
	Electrical connect	Electrical connection		Removable spring loaded terminal block max. 2.5 mm ²			
	Cable entry		Cable gla	and with strain re	lief Ø68 mm		
Functional data	Sensor Technology		Piezo measuring element				
	Multirange		8 measu	ring ranges selec	table		
	Output signal active note		Output 05/10 V selectable with switch Voltage output: min. 10 k Ω load Current output: max. 500 Ω load				
	Display		LCD, 29x with bac	35 mm klight	WC (configurable)	
	Application		Air				
	Response time		Adjustab	le 0.8 s or 4.0 s			
Measuring data	Measuring values Measuring fluid		Differential pressure				
			Air and non-aggressive gases				
	Measuring rang	e 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 S7	0100 -100100	00.4 -0.40.4		
	Accuracy pressu	re	measurir	ו compared to the וg range ≤500 Pa וg range >500 Pa			
	Long-term stability		±2.5% FSO (Full Scale Output) / 4 yr.				
Materials	Cable gland		PA6, blac	:k			



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	Housing	Cover: Lexan, orange Bottom: Lexan, orange Seal: 0467 NBR70, black		
Cofee data		UV resistant		
Safety data	Ambient humidity	Max. 95% r.H., non-condensing		
	Ambient temperature	-1050°C [15120°F]		
	Fluid temperature	-1050°C [15120°F]		
	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.

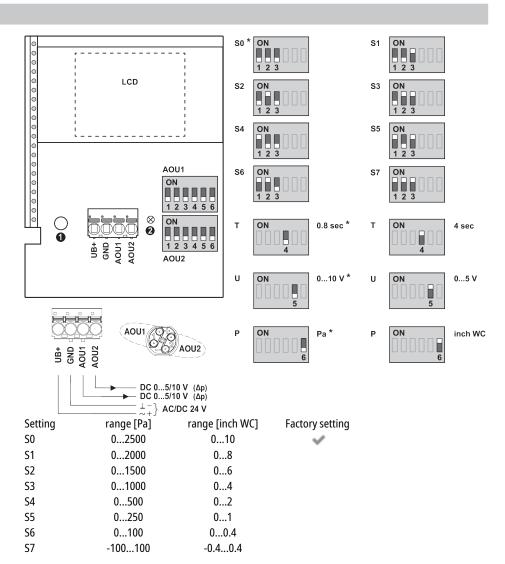
The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

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	
	Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for 22ADP Mounting plate L housing Dowel Screws	A-22AP-A08 A-22D-A10	
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	

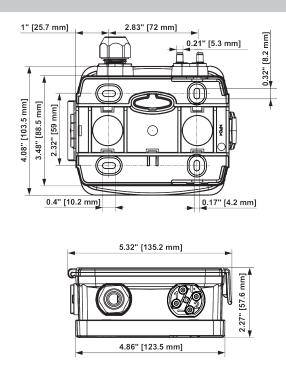
Duct connector, Metal, L 100 mm, Tube connection 5 mm Connection adapter, M20x1.5, for cable 1x6 mm, Multipack 10 pcs.

A-22G-A01.1





Dimensions



Туре

Weight



Technical data sheet	22ADP-124
22ADP-124D	0.44 kg
22ADP-124F	0.46 kg