

# 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. Monitoring air filters, fans, industrial cooling air cycles, control of air and fire dampers. Options available with LCD display. IP65 / NEMA 4X rated enclosure.





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Туре	Measuring range pressure	Output signal active pressure	Burst pressure	Display type
22ADP-124D	02500 Pa	05 V, 010 V	40 kPa	-
22ADP-124F	02500 Pa	05 V, 010 V	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 <sup>2</sup>	
	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 05/10 V selectable with switch Voltage output: min. 10 $k\Omega$ load Current output: max. 500 $\Omega$ load	
	Display	LCD, 29x35 mm with backlight Measured values: Pa, inchWC (parametrisable)	
	Application	Air	
	Response time	Adjustable 0.8 s or 4.0 s	
Measuring data	Measuring values	Differential pressure	
	Measuring fluid	Air and non-aggressive gases	
	Measuring range settings pressure	Setting range [Pa] range [inch WC] Factory setting	
		\$0 02500 Pa 010 inch WC \$1 02000 Pa 08 inch WC \$2 01500 Pa 06 inch WC \$3 01000 Pa 04 inch WC \$4 0500 Pa 02 inch WC \$5 0250 Pa 01 inch WC \$6 0100 Pa 00.4 inch WC \$7 -100100 Pa -0.40.4 inch \$WC	
	Accuracy pressure	deviation compared to the reference device measuring range ≤500 Pa: ±5 Pa measuring range >500 Pa: ±10 Pa	



Cable gland	PA6, black
Housing	Cover: Lexan, orange Bottom: Lexan, orange Seal: 0467 NBR70, black UV resistant
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

22ADP-124

cULus acc. to UL60730-1A/-2-6, CAN/CSA

Technical data sheet

Certification UL

**Quality Standard** 

Degree of protection IEC/EN

Degree of protection NEMA/UL

## Safety notes



Materials

Safety data

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.

E60730-1:02

**NEMA 4X** 

ISO 9001

IP65

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
	Duct connector kit, PVC tube 2 m, 2 connection elements (Plastic) for 22ADP	A-22AP-A08
	Dowel Screws	



#### **Accessories**

#### Optional accessories

## Description

S6

S7

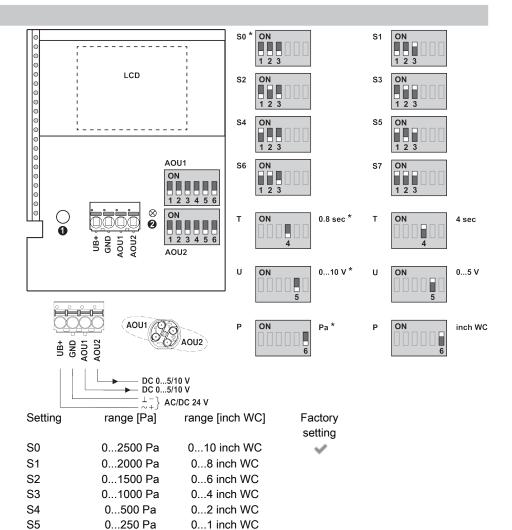
Duct connector, Metal, L 40 mm, Tube connection 5 mm Duct connector, Metal, L 100 mm, Tube connection 5 mm

A-22AP-A02 A-22AP-A04 A-22G-A01.1

Type

Connection adapter, M20x1.5, for cable 1x6 mm, Multipack 10 pcs.

# Wiring diagram



0...0.4 inch WC

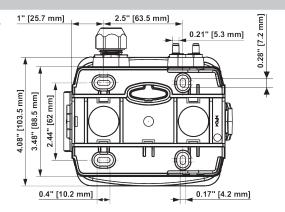
-100...100 Pa -0.4...0.4 inch WC

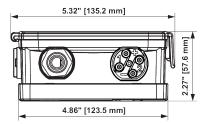
0...100 Pa



## **Dimensions**

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Туре	Weight
22ADP-124D	0.44 kg
22ADP-124F	0.46 kg