

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

| | - CD | | | |
|--|---|--|--|--|
| | CD | | | |
| Technical Data | | | | |
| | | | | |
| Electrical data Nominal voltage AC/DC 24 V | AC/DC 24 V AC 1929 V / DC 1535 V | | | |
| Nominal voltage range AC 1929 V / DC 1535 V | | | | |
| Power consumption AC 1.7 VA | | | | |
| Power consumption DC 1.1 W | | | | |
| | Pluggable spring loaded terminal block max. 2.5 mm ² Cable gland with strain relief Ø68 mm | | | |
| Cable entry Cable gland with strain relief Ø68 mm | | | | |
| Functional data Sensor Technology Piezo measuring element | | | | |
| Multirange 8 measuring ranges selectable | 8 measuring ranges selectable | | | |
| Voltage output 2x 05 V, 010 V, min. load 10 kΩ | oad 10 kΩ | | | |
| Output signal active note Output 05/10 V selectable with switch | Output 05/10 V selectable with switch | | | |
| Display LCD, 29x35 mm | | | | |
| with backlight | | | | |
| | Measured values: Pa, inchWC (parametrisable) Air Adjustable 0.8 s or 4.0 s Differential pressure | | | |
| | | | | |
| | | | | |
| Measuring data Measuring values Differential pressure | | | | |
| Measuring fluid Air and non-aggressive gases | Air and non-aggressive gases | | | |
| Measuring range settings pressure Setting range [Pa] range [inch Wo | C] Factory setting | | | |
| S0 02500 010 | V | | | |
| S1 02000 08 | | | | |
| S2 01500 06 | | | | |
| S3 01000 04 | | | | |
| S4 0500 02 | | | | |
| S5 0250 01 S6 0100 00.4 | | | | |
| S7 -100100 -0.40.4 | | | | |
| | ce | | | |
| Accuracy pressure deviation compared to the reference devi | | | | |
| Accuracy pressure deviation compared to the reference devi measuring range ≤500 Pa: ±5 Pa | | | | |
| | | | | |
| measuring range ≤500 Pa: ±5 Pa | | | | |



| | Technical data sheet | 22ADP-124 | | | |
|-------------|------------------------------|---|--|--|--|
| | Housing | Cover: Lexan, orange Bottom: Lexan, orange | | | |
| | | Seal: 0467 NBR70, black 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.

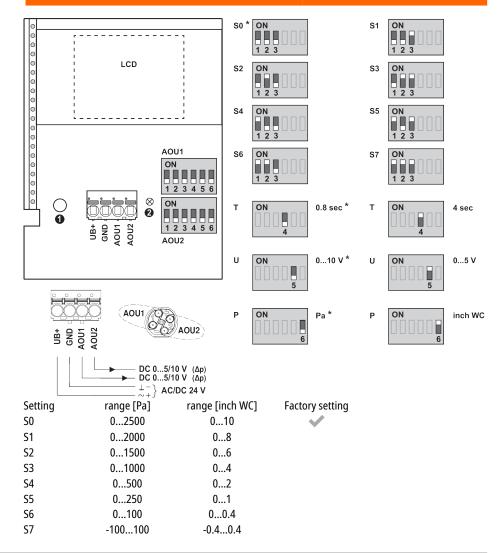
| Remarks | | | | | |
|-------------------------------|---|------------|--|--|--|
| Manual Zero-Point calibration | Manual Zero-Point calibration In normal operation zero-point calibration should be executed every 12 months. | | | | |
| | Attention! For executing zero-point calibration the power supply 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 | A-22AP-A08 | | | |
| | Mounting plate L housing | A-22D-A10 | | | |
| | Dowel | | | | |
| | Screws | | | | |
| | | | | | |

| Optional accessories | Description | Туре | |
|----------------------|--|-------------|--|
| | Duct connector, Metal, L 40 mm, Tube connection 5 mm | A-22AP-A02 | |
| | Duct connector, Metal, L 100 mm, Tube connection 5 mm | A-22AP-A04 | |
| | Connection adapter, M20x1.5, for cable 1x6 mm, Multipack 10 pcs. | A-22G-A01.1 | |

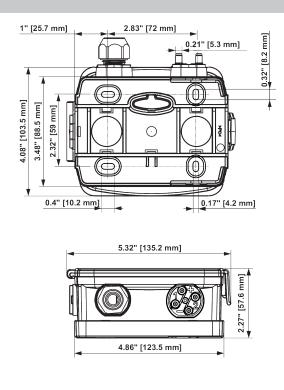
Wiring diagram



Technical data sheet



Dimensions



| Туре | Weight | | |
|------------|---------|--|--|
| 22ADP-124D | 0.44 kg | | |



| Tec | 63 | 6 - | 110 | Ch | oot |
|-----|----|-----|-----|----|-----|
| EU | 6 | | | 21 | |
| | | | | | |

22ADP-124F

0.48 kg