

Sensor Datasheet

22ADP-184.

Differential Pressure Sensor

Differential pressure transmitter with 8 selectable ranges and Modbus functionality. NEMA 4X / IP65 rated enclosure. For monitoring the differential pressure of air and other non-flammable and nonaggressive gases. Monitoring air filters, fans, industrial cooling air cycles, control of air and fire dampers. Options available with LCD display.





Type Overview

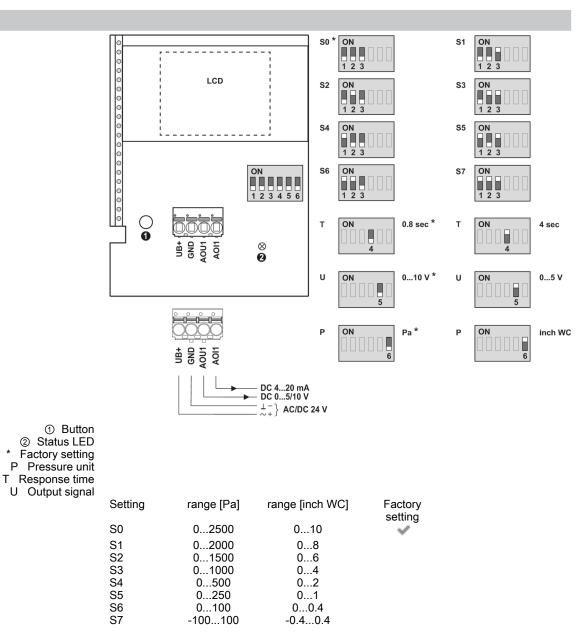
Technical Da

| | Туре | Measuring range pressure | Output signal active pressure | | | | |
|-----------------|---------------------------|--------------------------|--|--|---|-----------------|--|
| | 22ADP-184 | 02500 Pa | DC 010 V, DC 05 V, 420 mA | - | _ | | |
| | 22ADP-184L | 02500 Pa | DC 010 V, DC 05 V, 420 mA | LCD | _ | | |
| ata | | | | | | | |
| Electrical data | Power Supply I | 20 | 15 | 24 V, ±10%, 1.1 W | | | |
| Elootitoal data | Power Supply | | | V, ±10%, 1.7 VA | | | |
| | Cable entry | | Cat | ble gland PG11 Ø6 ef Ø68 mm | 10 mm, with | strain | |
| Functional data | Sensor Technology | | Pie | Piezo measuring element | | | |
| | Multirange | | 8 fie | 8 fields selectable | | | |
| | Output signal active note | | Volt | Output DC 05/10 V selectable with switch Voltage output: min. 10 k Ω load Current outout: max. 500 Ω load | | | |
| | Display | | with | D, 29 x 35 mm i backlight asured values: Pa, in | ichWC (confi | gurable) | |
| | Media | | Air | | | | |
| Measuring data | Measured values | | Diff | erential pressure | | | |
| | Measuring med | lia | Air | and non-aggressive | gases | | |
| | Measuring rang | ge settings pressure | | ting range [Pa] ran | | Factory setting | |
| | | | S0 S1 S2 S3 S4 S5 S6 | 02500 02000 01500 01000 0500 0250 0100 | 010 08 06 04 02 01 00.4 | ~ | |
| | Accuracy press | sure | mea | -100100 iation compared to th asuring range ≤500 F asuring range >500 F | Pa: ±5 Pa | device | |
| Materials | Cable gland | | PA | PA6, black | | | |
| | Housing | | Y60 Bot Y60 | Cover: Lexan, Belimo orange NCS S0580- Y6OR Bottom: Lexan, Belimo orange NCS S0580- Y6OR Seal: 0467 NBR70, black | | | |

| BELIMO | Sensor Datasheet | 22ADP-184 | |
|--|---|-------------------------------------|--|
| Safety data | Ambient humidity | 95% r.h., non-condensing | |
| | Ambient temperature | -1050 °C [15120 °F] | |
| | Medium temperature | -1050 °C [15120 °F] | |
| | Protection class IEC/EN | III Safety Extra-Low Voltage (SELV) | |
| | Protection class UL | UL Class 2 Supply | |
| | Certification IEC/EN | IEC/EN 60730-1 and IEC/EN 60730-2-6 | |
| | Certification UL | pending | |
| | Degree of protection IEC/EN | IP65 | |
| | Degree of protection NEMA/UL | NEMA 4X | |
| | Quality Standard | ISO 9001 | |
| | Weight | 0.29 kg | |
| Safety notes | | | |
| <u>A</u> | The installation and assembly of electrical equipment should only be performed by authorized personnel. The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, 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 -) | | |
| Accessories | | | |
| Scope of delivery | Mounting plate Dowel Screws | | |
| Optional accessories | Description | Туре | |
| | Duct connector (metal) 40 mm Duct connector (metal) 100 mm | A-22AP-A02 A-22AP-A04 | |



Wiring diagram





Dimensions

