

Differential Pressure Sensor





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Tvn	e O\	/erv	iew

Туре	Measuring range pressure	Output signal active pressure	Display type
22ADP-186	07000 Pa	DC 010 V, DC 05 V, 420 mA	-
22ADP-186L	07000 Pa	DC 010 V, DC 05 V, 420 mA	LCD

	T20 IIIA		
Technical Data			
Electrical data	Power Supply DC	1524 V, ±10%, 1.1 W	
	Power Supply AC	24 V, ±10%, 1.7 VA	
	Cable entry	Cable gland PG11 Ø610 mm, with strain relief Ø68 mm	
Functional data	Sensor Technology	Piezo measuring element	
	Multirange	8 fields selectable	
	Output signal active note	Output DC 05/10 V selectable with switch Voltage output: min. 10 $k\Omega$ load Current outout: max. 500 Ω load	
	Display	LCD, 29 x 35 mm with backlight Measured values: Pa, inchWC (configurable)	
	Media	Air	
Measuring data	Measured values	Differential pressure	
	Measuring media	Air and non-aggressive gases	
	Measuring range settings pressure	Setting range [Pa] range [inch WC] Factory setting	
		S0 07000 028	
		S1 05000 020	
		S2 04000 016 S3 03000 012	
		S4 02500 010	
		S5 02000 08 S6 01500 06	
		S7 01000 04	
	Accuracy pressure	deviation compared to the reference device measuring range ≤2000 Pa: ±10 Pa measuring range >2000 Pa: ±25 Pa	
Materials	Cable gland	PA6, black	
	Housing	Cover: Lexan, Belimo orange NCS S0580- Y6OR Bottom: Lexan, Belimo orange NCS S0580- Y6OR Seal: 0467 NBR70, black	



Sensor Datasheet	22ADP-186
Sensoi Dalasneel	ZZAUP-100

Safety data

Ambient humidity	95% r.h., non-condensing
Ambient temperature	-1050 °C [15122 °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
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Certification UL	pending
Degree of protection IEC/EN	IP65
Degree of protection IEC/EN	IP65
Degree of protection IEC/EN Degree of protection NEMA/UL	IP65 NEMA 4X

Safety notes



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

Duct connector (metal) 40 mm

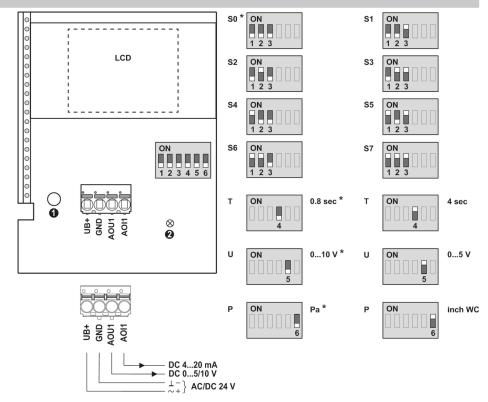
Duct connector (metal) 100 mm

Type A-22AP-A02

A-22AP-A04



Wiring diagram



① Button
② Status LED
* Factory setting
P Pressure unit
T Response time
U Output signal

range [Pa]	range [inch WC]	Factory setting
07000	028	~
05000	020	
04000	016	
03000	012	
02500	010	
02000	80	
01500	06	
01000	04	
	07000 05000 04000 03000 02500 02000 01500	07000 028 05000 020 04000 016 03000 012 02500 010 02000 08 01500 06



Dimensions

