

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 non-aggressive gases. Monitoring air filters, fans, industrial cooling air cycles, control of air and fire dampers.

Options available with LCD display.





Туре	Measuring Range Pressure	Output Signal Active Pressure	Overpressure Limit	Display Type
22ADP-184	-	DC 010 V,	40 kPa /	-
		DC 05 V,	160 inch WC	
		420 mA		
22ADP-184L	-	DC 010 V,	40 kPa /	LCD
		DC 05 V,	160 inch WC	
		420 mA		

	420 IIIA		
Fechnical 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 measuring ranges selectable	
	Output signal active note	Output DC 05/10 V selectable with switch Voltage output: min. 10 k Ω load Current output: 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 02500 010	
		S1 02000 08	
		S2 01500 06	
		S3 01000 04	
		S4 0500 02	
		\$5 0250 01 \$6 0100 00.4	
		S7 -100100 -0.40.4	
	Accuracy pressure	deviation compared to the reference device measuring range ≤500 Pa: ±5 Pa measuring range >500 Pa: ±10 Pa	



	Technical data sheet	22ADP-184	
Materials	Cable gland	PA6, black	
	Housing	Cover: Lexan, Belimo orange NCS S0580- Y6OR Bottom: Lexan, Belimo orange NCS S0580- Y6OR Seal: 0467 NBR70, black	
Safety data	Ambient humidity	Max. 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	
	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, CE acc. to 2004/108/EC and 2006/95/EC, NEMA 4X, IP65, UL Enclosure Type 4X	
	Degree of protection IEC/EN	IP65	
	Degree of protection NEMA/UL	NEMA 4X	
	Quality Standard	ISO 9001	
	Weight	0.29 lbs	

Safety notes



The installation and assembly of electrical equipment should only be performed by authorized personnel.

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 human, 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

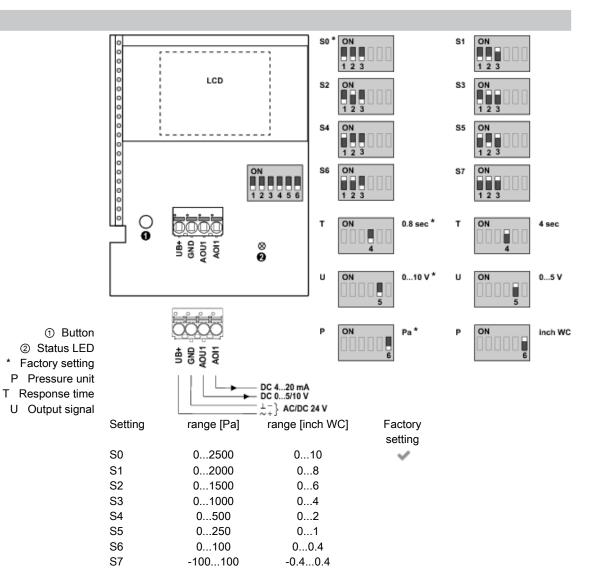
Screws

Optional Accessories

Description	Туре
Duct connector (metal) 40 mm	A-22AP-A02
Duct connector (metal) 100 mm	A-22AP-A04



Wiring diagram



Dimensions

