

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.





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

4...20 mA

22ADP-184L - DC 0...10 V, 40 kPa / LCD
DC 0...5 V, 160 inch WC
4...20 mA

	420 mA					
Technical Data						
Electrical data	Power Supply DC	1524	24 V, ±10%, 1.1 W			
	Power Supply AC	24 V, ±	10%, 1.7 VA			
	Cable entry	-	land PG11 Ø 38 mm	შ610 mm, with s	strain	
Functional data	Sensor Technology	Piezo m	Piezo measuring element			
	Multirange	8 meas	8 measuring ranges selectable			
	Output signal active note	Voltage	output: min.	V selectable with Ω selectable with Ω load . 500 Ω load	switch	
	Display	with bac	LCD, 29 x 35 mm with backlight Measured values: Pa, inchWC (configurable)			
	Media	Air				
Measuring data	Measured values	Differen	Differential pressure			
	Measuring media	Air and	ir and non-aggressive gases			
	Measuring range settings pressure	Setting	range [Pa]	range [inch WC]	Factory setting	
		S0	02500	010	~	
		S1	02000	80		
		S2	01500	06		
		S3	01000	04		
		S4	0500	02		
		S5	0250	01		
		S6	0100	00.4		
		S7	-100100	-0.40.4		
	Accuracy pressure deviation compared to the reference de measuring range ≤500 Pa: ±5 Pa measuring range >500 Pa: ±10 Pa		device			



	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

Safety notes



Weight

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.

0.29 lbs

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

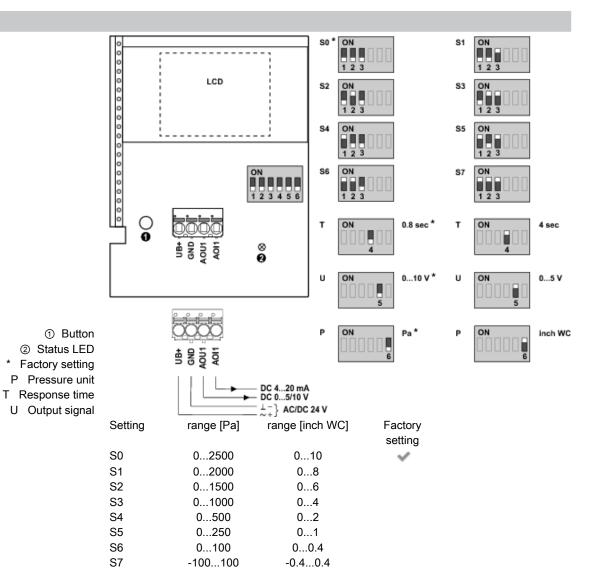
Screws

Optional Accessories

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



Wiring diagram



Dimensions

