

Technical data sheet

22ADP-18Q.

Differential Pressure Sensor

Differential pressure transmitter with 8 selectable ranges and outputs 0...5 V, 0...10 V or 4...20 mA. 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, Autozero feature.





Type Overview

Туре	Measuring Range Pressure	Output Signal Active Pressure	Overpressure Limit	Display Type	Additional Features
22ADP-18Q	-	DC 010 V, DC 05 V,	40 kPa / 160 inch WC	-	-
		420 mA			
22ADP-18QA	-	DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC	-	Auto-Zero
22ADP-18QB	-	DC 010 V, DC 05 V, 420 mA	40 kPa / 160 inch WC	LCD	Auto-Zero
22ADP-18QL	-	DC 010 V, 420 mA, DC 05 V	40 kPa / 160 inch WC	LCD	-

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 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	



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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 0250 01 ✔			
		S1 0100 00.4			
		S2 050 00.2			
		S3 025 00.1			
		S4 -2525 -0.10.1			
		S5 -5050 -0.20.2 S6 -100100 -0.40.4			
		S7 -150150 -0.60.6			
	Accuracy pressure	deviation compared to the reference device ±1 Pa at range <250 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			
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

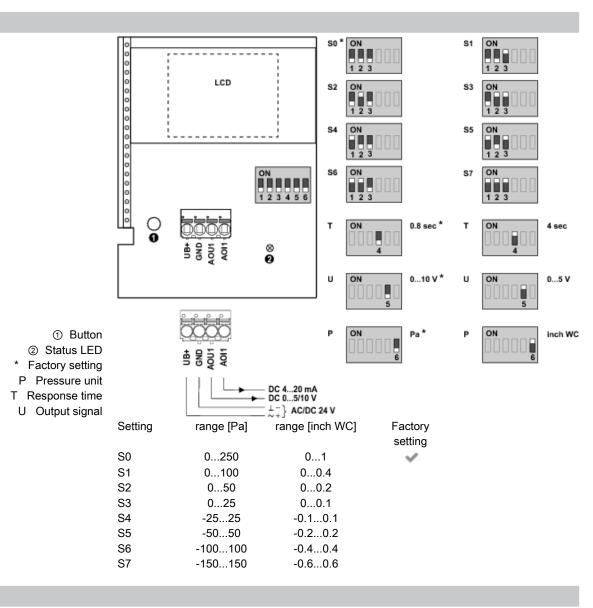


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Remarks			
Automated Zero-Point calibration (Auto- Zero)	Transmitters equipped with the auto zero calibration are maintenance free.		
,	The Auto-Zero calibration electronically adjusts the transmitter zero every 10 minutes. The function eliminates all output signal drift due to thermal, electronic or mechanical effects. The auto-zero adjustment takes approx. 4 seconds after which the device returns to its normal measuring mode. During the 4 second adjustment period, the output and display values will freeze to the latest measured value.		
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

