

Differential Pressure Sensor (Air)

Differential pressure transmitter with 8 selectable ranges and outputs 0 to 5/10 V or 4 to 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. Available with LCD display.

Sensor Datasheet

22ADP-58Q.





Type Overview

Туре	Measuring Range Pressure	Output Signal Active Pressure	Display Type	Additional Features
22ADP-58Q	0 to 250 Pa	420 mA, DC 05 V, DC 010 V	-	-
22ADP-58QA	0 to 250 Pa	420 mA, DC 05 V, DC 010 V	-	auto zero
22ADP-58QB	0 to 250 Pa	420 mA, DC 05 V, DC 010 V	LCD	auto zero
22ADP-58QL	0 to 250 Pa	420 mA, DC 05 V, DC 010 V	LCD	-

Technical Data

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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 Ø6 to 10 mm, with strain relief Ø6 to 8 mm, 1/2" conduit adapter included		
Functional Data	Sensor Technology	piezo measuring element		
	Multirange	8 fields selectable		
	Output Signal Active Note	output DC 0 to 5/10 V selectable with switch voltage output: min. 10 k Ω load current output: max. 500 Ω load		
	Display	LCD, 1.14" x 1.38" [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 0 to 250 0 to 1 💞		
		S1 0 to 100 0 to 0.4 S2 0 to 50 0 to 0.2 S3 0 to 25 0 to 0.1		
		S4 -25 to 25 -0.1 to 0.1		
		S5 -50 to 50 -0.2 to 0.2		
		S6 -100 to 100 -0.4 to 0.4		
		S7 -150 to 150 -0.6 to 0.6		
	Accuracy Pressure	±0.004 inch WC (±1 Pa) @ range <1 inch WC (250 Pa)		

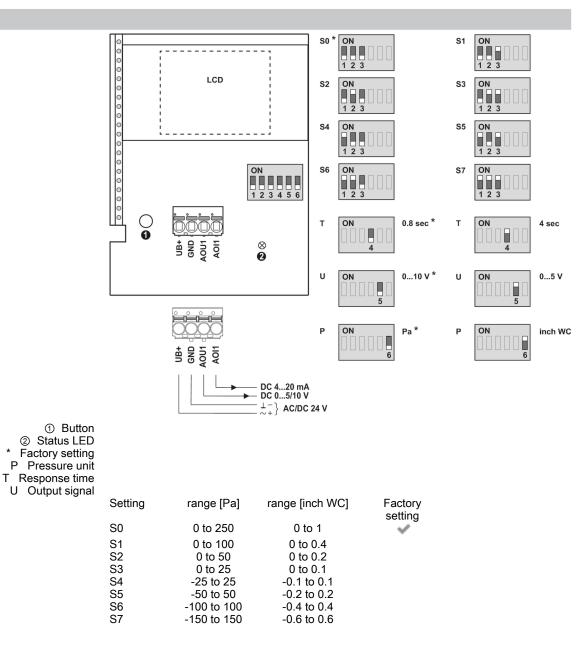


Sensor Datasheet

Materials	Cable Gland	PA6, black	
	Housing	cover: lexan, Belimo orange NCS S0580- Y6OR base: lexan, Belimo orange NCS S0580- Y6OR seal: 0467 NBR70, black	
Safety Data	Ambient Humidity	max. 95% RH non-condensing	
	Ambient temperature	15°F to 120°F [-10°C to 50°C]	
	Medium temperature	15°F to 120°F [-10°C to 50°C]	
	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 lbs	
Safety Notes			
\bigwedge	The installation and assembly of electrical equipment should only be performed b authorized personnel.		
	 The product should only be used for the intended application. Unauthorized 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 no 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			
Automated Zero-Point Calibration (Auto Zero)			
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 S1 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 cable gland nut conduit 1/2" NPT		
Optional Accessories	Description	Туре	
	metal duct connectors 1.57" [40 mm] metal duct connectors 4" [100 mm]	A-22AP-A01 A-22AP-A03	



Wiring Diagram





Dimensions

