

Sensor Datasheet

22ADP-184.

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 nonaggressive gases. Monitoring air filters, fans, industrial cooling air cycles, control of air and fire dampers. Options available with LCD display.





Type Overview

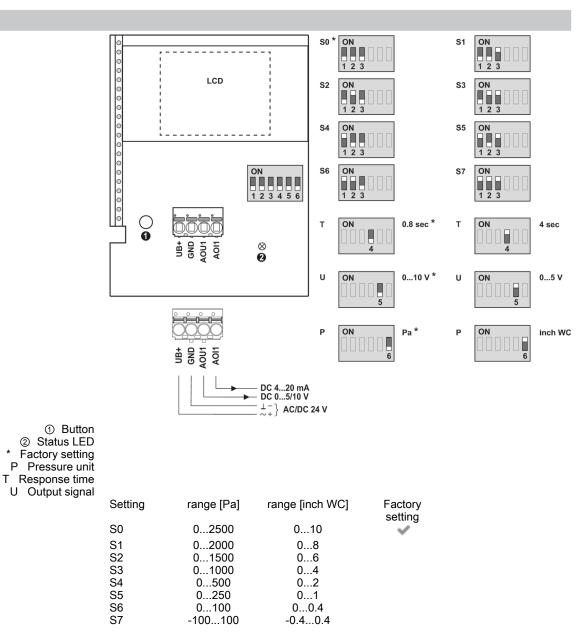
Technical Da

	Туре	Measuring range pressure	Output signal active pressure				
	22ADP-184	02500 Pa	DC 010 V, DC 05 V, 420 mA	-	_		
	22ADP-184L	02500 Pa	DC 010 V, DC 05 V, 420 mA	LCD	_		
ata							
Electrical data	Power Supply I	20	15	24 V, ±10%, 1.1 W			
Elootitoal data	Power Supply			V, ±10%, 1.7 VA			
	Cable entry		Cat	ble gland PG11 Ø6 ef Ø68 mm	10 mm, with	strain	
Functional data	Sensor Technology		Pie	Piezo measuring element			
	Multirange		8 fie	8 fields selectable			
	Output signal active note		Volt	Output DC 05/10 V selectable with switch Voltage output: min. 10 k Ω load Current outout: max. 500 Ω load			
	Display		with	D, 29 x 35 mm i backlight asured values: Pa, in	ichWC (confi	gurable)	
	Media		Air				
Measuring data	Measured values		Diff	erential pressure			
	Measuring med	lia	Air	and non-aggressive	gases		
	Measuring rang	ge settings pressure		ting range [Pa] ran		Factory setting	
			S0 S1 S2 S3 S4 S5 S6	02500 02000 01500 01000 0500 0250 0100	010 08 06 04 02 01 00.4	~	
	Accuracy press	sure	mea	-100100 iation compared to th asuring range ≤500 F asuring range >500 F	Pa: ±5 Pa	device	
Materials	Cable gland		PA	PA6, black			
	Housing		Y60 Bot Y60	Cover: Lexan, Belimo orange NCS S0580- Y6OR Bottom: Lexan, Belimo orange NCS S0580- Y6OR Seal: 0467 NBR70, black			

BELIMO	Sensor Datasheet	22ADP-184	
Safety data	Ambient humidity	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	
	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 kg	
Safety notes			
<u>A</u>	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	Туре	
	Duct connector (metal) 40 mm Duct connector (metal) 100 mm	A-22AP-A02 A-22AP-A04	



Wiring diagram





Dimensions

