

Type Overview

Differential pressure sensor Water

Active sensor (0...10 V) for differential pressure measurement in HVAC systems. The sensor is suitable for liquids, refrigerants or non-aggressive gases. The housing is made of stainless steel and is IP65 / NEMA 4 rated. Optional stainless steel or brass pipe connection adaptors also available.





уре	Measuring range [psi] [psi]	Output signal active pressure	Overpressure	Overpressure note	Burst pressure	
2WDP-511	015	010 V	85 psi	Single-sided	300 psi	
2WDP-512	030	010 V	85 psi	Single-sided	300 psi	
2WDP-514	050	010 V	230 psi	Single-sided	300 psi	
2WDP-515	0100	010 V	230 psi	Single-sided	300 psi	
echnical data						
Electrical Dat	a Nominal voltag	je	AC/D	C 24 V		
	Remark about	Remark about nominal voltage range		AC 21.626.4 V / DC 13.526.4 V		
	Power consum	Power consumption AC		0.9 VA		
	Power consum	Power consumption DC		0.37 W		
	Electrical conne	Electrical connection		Connector Plug for wire 0.51.5 mm ²		
	Cable entry		•	plug According to DIN ruction A	43650,	
Functional Dat	Functional Data Application		water Water steam	r-glycol mixture		
	Voltage output		1 x 0.	10 V, min. resistance 2	2 kΩ	
	Mechanical cor	nnection	press	ure connector: 1/4" NP	Т	
	Mounting	Mounting		Installation location unrestricted		
	Typical respons	se time	740 m	าร		
Measuring Dat	Measured value	Measured values		Differential pressure		
Specification pressur	e Accuracy	Accuracy		±1% of measuring range @ 23167°F [-575°C]		
	Long term stab	ility	±2.5%	6 / 10 yr.		
Safety Dat	a Protection class	Protection class IEC/EN		III, Protective Extra-Low Voltage (PELV)		
	Power source U	JL	Class	2 Supply		
	Degree of prote		IP65			
		ection NEMA/UL	NEM <i>A</i>	\ 4		
	EU Conformity		CE Ma	arking		
	Certification IE		IEC/E	N 60730-1		
	Quality Standa	rd	ISO 9	001		
	Ambient humic	lity	Max.	95% RH, non-condensi	ng	







Technical data		
Safety Data	Ambient temperature	-1050°C [15122°F]
	Fluid temperature	15175°F [-1080°C] At a fluid temperature of <36°F [<2°C], frost protection must be guaranteed steam inlet @ max. 15 psi [100 kPa]
Materials	Housing seal	EPDM
	Housing	Bottom: Stainless steel 1.4305 Top Cover: Die cast aluminium
	Fluid wetted parts	Stainless steel 1.4301, Ceramic

Safety Notes



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. Unauthorized modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

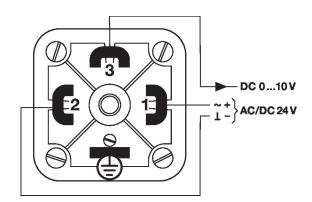
Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Accessories

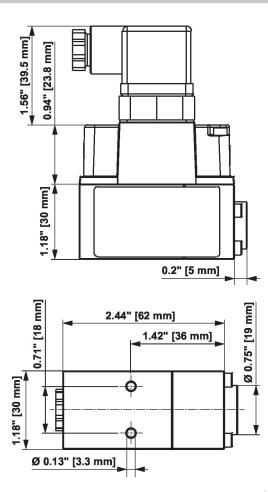
Optional accessories	Description	Туре
	Pipe connector, Brass, Pipe 0.24" [6 mm] to 1/4" NPT (external thread),	A-22WP-A03
	Set of 2 pcs.	
	Pipe connector, Stainless steel, Pipe 0.24" [6 mm] to 1/4" NPT (external thread), Set of 2 pcs.	A-22WP-A05
	Pipe connector, Brass, Pipe 0.3" [8 mm] to 1/4" NPT (external thread), Set of 2 pcs.	A-22WP-A07
	Pipe connector, Stainless steel, Pipe 0.3" [8 mm] to 1/4" NPT (external thread), Set of 2 pcs.	A-22WP-A09
	Mounting bracket for 22WDP, Metal	A-22WP-A11

Wiring Diagram





Dimensions



Туре	Weight
22WDP-511	1.2 lb [0.55 kg]
22WDP-512	1.2 lb [0.55 kg]
22WDP-514	1.2 lb [0.55 kg]
22WDP-515	1.2 lb [0.55 kg]

Further documentation

• Installation instructions