

Differential Pressure Sensor Water

Active sensor (0...10V) for differential pressure measurement in HVAC systems. The sensor is suitable for water and water/ glycol mixtures. The housing is made of stainless steel and is NEMA 4 / IP65 rated. Optional stainless steel or brass pipe connection adaptors also available.

Technical data sheet

22WDP-51.

WARRANT



Type Overview

Туре	Measuring range pressure	Output signal active pressure	Overpressure range	Overpressure range note	Burst pressure
22WDP-511	015 psi	DC 010 V	85 psi	Single-sided	300 psi
22WDP-512	030 psi	DC 010 V	85 psi	Single-sided	300 psi
22WDP-514	050 psi	DC 010 V	230 psi	Single-sided	300 psi
22WDP-515	0100 psi	DC 010 V	230 psi	Single-sided	300 psi

Technical Data

Electrical Data	Power supply DC	1524 V, ±10%, 0.37 W	
	Power supply AC	24 V, , ±10%, 0.9 VA	
	Electrical connection	Connector Plug for wire 0.51.5 mm ²	
	Cable entry	angle plug according to DIN 43650, construction A	
Functional Data	Output signal active note	voltage output: min. 2 k Ω load	
	Mechanical connection	pressure connector: 1/4" NPT	
	Mounting	installation position unrestricted	
	Application	water water glycol mixture	
	Response time	< 10 ms	
Measuring Data	Measuring values	differential pressure	
	Accuracy pressure	<±1% of measuring range @ 23167°F [-575°C]	
Materials	Housing seal	EPDM	
	Housing	base: stainless steel 1.4305 Top Cover: Die cast aluminium	
	Fluid wetted parts	Stainless steel 1.4301, ceramic	
Safety Data	Ambient humidity	max. 95% r.H., non-condensing	
	Ambient temperature	15120°F [-1050°C]	
	Fluid temperature	15175°F [-1080°C]	
	Protection class IEC/EN	III protective extra-low voltage (pelv)	
	Protection class UL	UL Class 2 Supply	
	EU Conformity	CE Marking	
	Certification IEC/EN	IEC/EN 60730-1	
	Degree of protection IEC/EN	IP65	
	Degree of protection NEMA/UL	NEMA 4	
	Quality Standard	ISO 9001	



Safety Notes

22WDP-51.



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 humans, animals or assets.

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

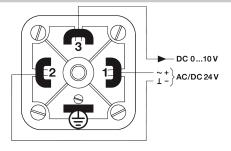
Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

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

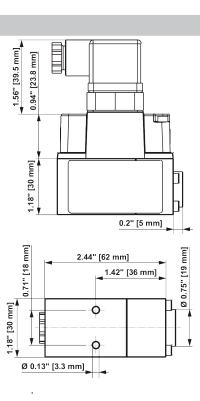
Wiring Diagram





Dimensions

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]