

Differential pressure sensor Water

Active sensor (4...20 mA) 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 IP65 / NEMA 4 rated. Optional stainless steel or brass pipe connection adaptors also available.





Type Overview

Туре	Measuring range pressure [bar]	Output signal active pressure	Overpressure range	Overpressure range note	Burst pressure
22WDP-131	01	420 mA	6 bar	Single-sided	21 bar
22WDP-132	02.5	420 mA	6 bar	Single-sided	21 bar
22WDP-134	04	420 mA	16 bar	Single-sided	21 bar
22WDP-135	06	420 mA	16 bar	Single-sided	21 bar

	Data

Electrical data	Nominal voltage	DC 24 V	
21000110011001	Nominal voltage range	DC 13.526.4 V	
	Power consumption DC	0.5 W	
	Electrical connection	Connector plug for wire 0.51.5 mm ²	
	Cable entry	Angle plug according to DIN 43650, construction A	
Functional data	Current output	1x 420 mA, max. load 900 Ω	
	Mechanical connection	pressure connector: G 1/4"	
	Mounting	installation position unrestricted	
	Application	Water	
		Water glycol mixture	
	Response time	37 ms	
Measuring data	Measuring values	Differential pressure	
	Accuracy pressure	<±1% of measuring range (@ -575°C)	
	Long-term stability	±2.5% / 10 yr.	
Materials	Housing seal	EPDM	
	Housing	Bottom Part: 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	-1050°C [15120°F]	
	Fluid temperature	-1080°C [15175°F]	
	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



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.

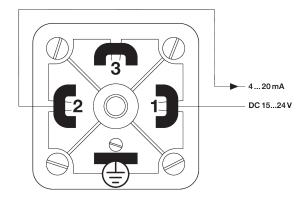
Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

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.

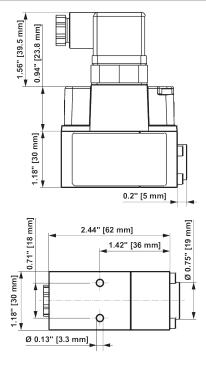
Accessories

Optional accessories	Description	Туре
	Pipe connector, Brass, Pipe 6 mm to G 1/4" (external thread), Set of 2 pcs.	A-22WP-A04
	Pipe connector, Stainless steel, Pipe 6 mm to G 1/4" (external thread), Set of 2	A-22WP-A06
	pcs.	
	Pipe connector, Brass, Pipe 8 mm to G 1/4" (external thread), Set of 2 pcs.	A-22WP-A08
	Pipe connector, Stainless steel, Pipe 8 mm to G 1/4" (external thread), Set of 2	A-22WP-A10
	pcs.	
	Mounting bracket for 22WDP, Metal	A-22WP-A11

Wiring diagram



Dimensions









Туре	Weight
22WDP-131	0.55 kg
22WDP-132	0.55 kg
22WDP-134	0.55 kg
22WDP-135	0.55 kg