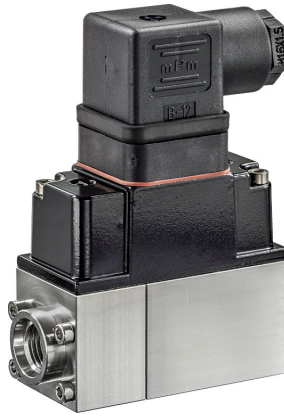


**Differential pressure sensor Water**

Active sensor (0...10 V) 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.



5-year warranty

**Type Overview**

Type	Measuring range pressure [psi]	Output signal active pressure	Overpressure	Overpressure note	Burst pressure
<b>22WDP-511</b>	0...15	0...10 V	85 psi	Single-sided	300 psi
<b>22WDP-512</b>	0...30	0...10 V	85 psi	Single-sided	300 psi
<b>22WDP-514</b>	0...50	0...10 V	230 psi	Single-sided	300 psi
<b>22WDP-515</b>	0...100	0...10 V	230 psi	Single-sided	300 psi

**Technical data**

<b>Electrical Data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage range	AC 21.6...26.4 V / DC 13.5...26.4 V
	Power consumption AC	0.9 VA
	Power consumption DC	0.37 W
	Electrical connection	Connector Plug for wire 0.5...1.5 mm <sup>2</sup>
	Cable entry	Angle plug According to DIN 43650, construction A
<b>Functional Data</b>	Application	water Water-glycol mixture
	Voltage output	1 x 0...10 V, min. resistance 2 kΩ
	Mechanical connection	pressure connector: 1/4" NPT
	Mounting	Installation position unrestricted
	Response time	740 ms
<b>Measuring Data</b>	Measured values	Differential pressure
	Accuracy pressure	±1% of measuring range @ 23...167°F [-5...75°C]
	Long-term stability	±2.5% / 10 yr.
<b>Materials</b>	Housing seal	EPDM
	Housing	Bottom: Stainless steel 1.4305 Top Cover: Die cast aluminium
	Fluid wetted parts	Stainless steel 1.4301, Ceramic
<b>Safety Data</b>	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1
	Quality Standard	ISO 9001
	Ambient humidity	Max. 95% RH, non-condensing

<b>Safety Data</b>	Ambient temperature	-10...50°C [15...122°F]
	Fluid temperature	15...175°F [-10...80°C] At a fluid temperature of < 2°C [< 36°F], frost protection must be guaranteed

**Safety Notes**

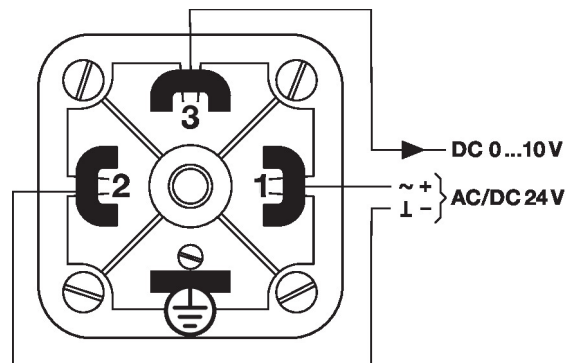

This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorized modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten 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 during installation.

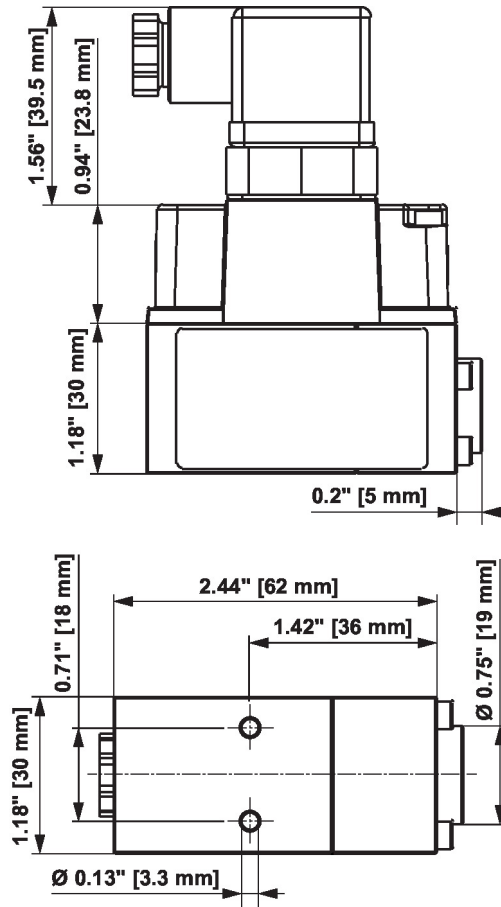
The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

**Accessories**

Optional accessories	Description	Type
	Pipe connector, Brass, Pipe 0.24" [6 mm] to 1/4" NPT (external thread), Set of 2 pcs.	A-22WP-A03
	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



Type	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