

Differential Pressure Sensor (Water)

Active sensor (0 to 10 V) for measuring the differential pressure in liquid or dry media. Various pressure ranges, rugged NEMA 4 / IP65 and compact stainless steel housing. Optional stainless steel or brass pipe connection adapters also available.



Type Overview

Type	Measuring Range Pressure	Output Signal Active Pressure
22WDP-511	0 to 15 psi	DC 0...10 V
22WDP-512	0 to 30 psi	DC 0...10 V
22WDP-514	0 to 50 psi	DC 0...10 V
22WDP-515	0 to 100 psi	DC 0...10 V

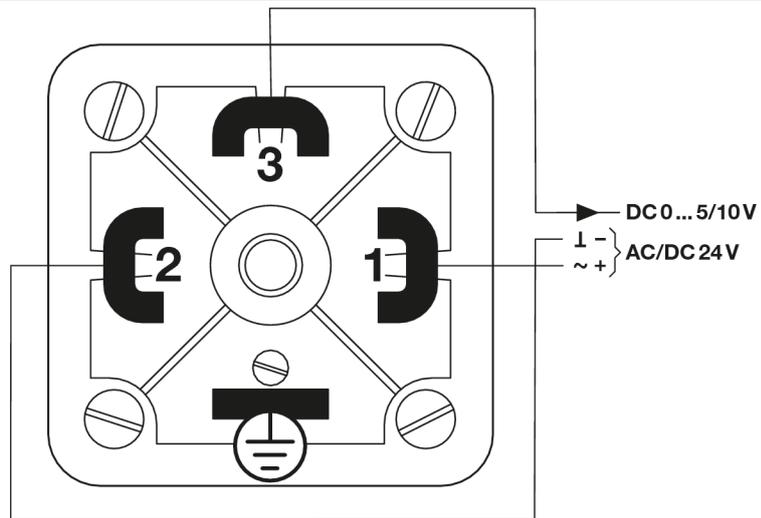
Technical Data

<b>Electrical Data</b>	Power Supply DC	15...24 V, ±10%, 0.37 W
	Power Supply AC	24 V, ±10%, 0.9 VA
	Electrical Connection	plug for wire 15 GA [0.5 to 1.5 mm <sup>2</sup> ]
	Cable Entry	angle plug according to DIN 43650, construction A
<b>Functional Data</b>	Output Signal Active Note	voltage output: min. 2 kΩ load
	Mechanical Connection	pressure connector: 1/4" NPT
	Mounting	installation position unrestricted
	Media	water
<b>Measuring Data</b>	Measured Values	differential pressure
	Measuring Media	air and non-aggressive gases
	Accuracy Pressure	<±1% of measuring range @ 23°F to 167 °F [-5°C to 75°C]
	Overpressure Limit	85 psi, Single-sided
	Maximum System Pressure	300 psi
<b>Materials</b>	Body Seal	EPDM
	Housing	base: stainless steel 1.4305 cover: aluminum pressure die casting
<b>Safety Data</b>	Material Contacting the Medium	stainless steel 1.4301, ceramic
	Ambient Temperature	15°F to 120°F [-10°C to 50°C]
	Medium Temperature	15°F to 175°F [-10°C to 80°C]
	Protection Class IEC/EN	III protective extra-low voltage (pelv)
	Protection Class UL	UL Class 2 Supply
	EU Conformity	CE Marking
	Degree of Protection IEC/EN	IP65
	Degree of Protection NEMA/ UL	NEMA 4
	Quality Standard	ISO 9001
	Weight	0.55 lbs

Accessories

Optional Accessories	Description	Type
	pipe connector brass, 2 pcs., Pipe 0.24" [6 mm] to 1/4" NPT (external thread)	A-22WP-A03
	pipe connector stainless steel, 2 pcs., Pipe 0.24" [6 mm] to 1/4" NPT (external thread)	A-22WP-A05
	pipe connector brass, 2 pcs., Pipe 0.3" [8 mm] to 1/4" NPT (external thread)	A-22WP-A07
	pipe connector stainless steel, 2 pcs., Pipe 0.3" [8 mm] to 1/4" NPT (external thread)	A-22WP-A09

Wiring Diagram



Dimensions

