Sensor Datasheet 22WP-51..

Pressure Sensor (Liquids)

Active sensor (0 to 10 V) for measuring the pressure in liquid mediums for air conditioning, heating and water applications. Suitable for plants with refrigerant. NEMA 4 / IP65 rated enclosure.

5 YEAR WARRANTY

Type Overview

Type	Measuring Range Pressure	Output Signal Active Pressure	Overpressure Limit	Burst Pressure
22WP-511	0...15 psi	DC 0...10 V	30 psi	45 psi
22WP-514	0...50 psi	DC 0...10 V	100 psi	150 psi
22WP-516	0...100 psi	DC 0...10 V	200 psi	300 psi
22WP-517	0...200 psi	DC 0...10 V	400 psi	600 psi

Technical Data

Electrical Data	Power Supply DC	15...24 V, ±10%, 0.15 W
	Power Supply AC	24 V, ±10%, 0.3 VA
	Cable Entry	mvs plug according to DIN EN175301-803 / type A
Functional Data	Sensor Technology	strain gauge on stainless steel membrane
	Output Signal Active Note	voltage output: min. 5 kΩ load
	Mechanical Connection	pressure connector: 1/4" NPT
	Media	water
Measuring Data	Measured Values	relative pressure
	Accuracy Pressure	±0.5% FS @ 77°F [25°C]
	Total Errors	at maximum temperatures -40 °F [-40 °C]: <= 2% FS 221 °F [105 °C]: <= 2% FS
Materials	Body Seal	FKM fluororubber, Silicone-free
	Housing	stainless steel 1.4301
Safety Data	Ambient Temperature	-40°F to 220°F [-40°C to 105°C]
	Medium Temperature	-40°F to 255°F [-40°C to 125°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	0.12 lbs

Safety Notes

The installation and assembly of electrical equipment should only be performed by authorized personnel.

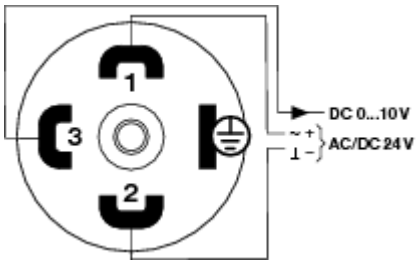
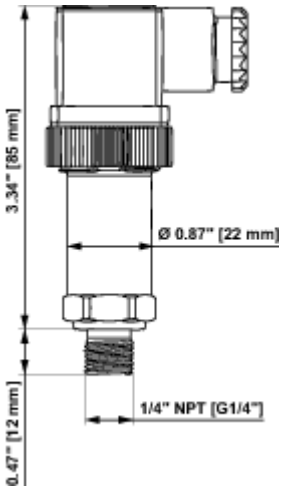
The product should only be used for the intended application. Unauthorized modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with
- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

Accessories

Optional Accessories	Description	Type
	adapter 1/4" NPT (internal thread) to 1/2" NPT (external thread)	A-22WP-A01

Wiring Diagram



Dimensions