
 MIS 4310en	Mounting Instruction	
PPE1- Series (dP)	Water Differential Pressure Sensor with Active Output	

The PPE1- Series (dP) is designed to measure differential water pressure
in HVAC heating and cooling systems with light aggressive liquids and refrigerants

The sensor is temperature compensated

The sensor operates with low power supply

The control output is active.



Sensor Specification	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Accuracy Compensated Temperature Range Temperature Drift (FS), typically Long Term Stability Medium Temperature Range Busting Pressure (diaphragm) Measuring Range (s)	Water Differential Pressure Active 0...10V / 4...20mA 0.5% Full Scale @ 25°C -10°C...+80°C ±0.02% FS / °C ±0.2% FS / Year -40°C...+125°C 300% of Measuring Range See Product Range, Page 1
	Technical Information	Electrical Information	Power Supply Type: PPE1.xAa Type: PPE1.xDa Frequency Insulation Resistant Terminal Clamp Power Consumption Type: PPE1.xAa Type: PPE1.xDa
Mechanical Information		Cable Entry Sensing Element Position Connection Type Sensing Element Positio	Angle Plug, DIN 43 650, Construction A Inside the housing G1/4", female thread Inside the housing
Color and Materials		Housing Cover Housing Bottom Diaphragm O- Ring Cable Gland	Black PP, RAL 9017 (Traffic Black) US:AISI 303; EU: en X 10 CrNiS 18 9; Ger.: W.N. US:AISI 316L; EU: EN/DIN 1.4404 VITRON® Black PP, RAL 9017 (Traffic Black)
Environmental Condition		Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperatur Storage Humidity	-25°C...+70°C 100% r.h., with condensation -35°C...+70°C < 90% r.h. -10°C...+70°C < 85% r.h., no condensation
Norms and Directives		IP- Rating Safety Class Product Standard 1 Product Standard 2 CE Conformities to CE Electromagnetic Compatibility Emitted Interference CE Electromagnetic Compatibility Interference Resistance RoHS Compatibility Operation Climatic Condition Operation Mechanical Condition Transport to Climatic Condition Transport Mechanical Condition Storage Climatic Condition Storage Mechanical Conditio	IP67 to IEC60529 III to EN 60 730 Automatic Electric. Controls for household and similar use 2009/EN 60 730-1 2004/108/EG Electromagnetic Compatibility EMV 2000/EN60730-1 Emitted Interference 2000/EN60730-1 Interference Resistance RoHS 3, Directive 2015/863 IEC 60 721-3-3 IEC 60 721-3-2 to class2M2 IEC 60 721-3-2 IEC 60 721-3-2 to class2M2 IEC 60 721-3-1 IEC 60 721-3-1 to class2M2

Product Range	Order Code	Power Supply	Pressure Range	Output	Accuracy	IP Protection	Measuring Membrane	Connection Thread	Burst Pressure
	PPE1.EAa	AC/DC 24V ±10% ; SELV	0...0.5bar	0...10V	0.5% Full Scale @ 25°C	IP67 to IEC60529	0.5% Full Scale @ 25°C	G1/4", female thread	300% of Measuring Range
	PPE1.AAa		0...1bar						
	PPE1.BAa		0...2.5bar						
	PPE1.CAa		0...4bar						
	PPE1.DAa		0...6bar						
	PPE1.EDa	DC 24V ±10% ; SELV	0...0.5bar	4...20mA					
	PPE1.ADa		0...1bar						
	PPE1.BDa		0...2.5bar						
	PPE1.CDa		0...4bar						
PPE1.DDa	0...6bar								

All Information and technical data are subject to alteration

Installation Notes



Observe the following general regulation for engineering and implementation:

All relevant national and heavy power regulation

Other country specific regulations

Country-specific regulations

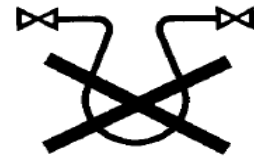
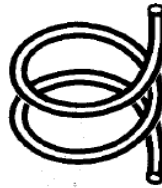
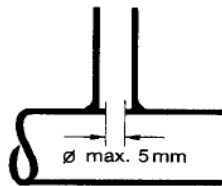
Local electrical supply authority regulation

Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors

Advices

Mounting Advices



Disposal Notes



The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.

The Device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

It is mandatory to complying with local currently applying laws and regulations.

Connection

PPE1.xAa

(1) UB+ (AC/DC24V)

PPE1.xDa

(1) UB+ (DC24V)

(3) Output 0..10V



Shield

(2) GROUND

(3) n.a.



Shield

(2) output 4...20mA

Dimensional Drawing

