

 TI4320en	Product Information	
PPE2- Series (dP)	Water Differential Pressure Switch	

The PPE2- Series (dP) is used to control the differential pressure in water pumps,

plate heat exchangers, tube heat exchanger and shell heat exchanger

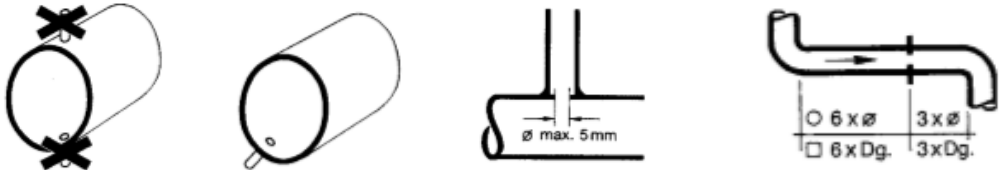
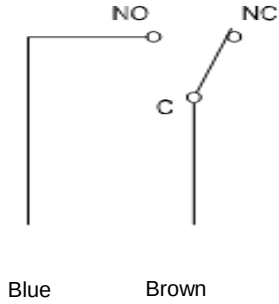
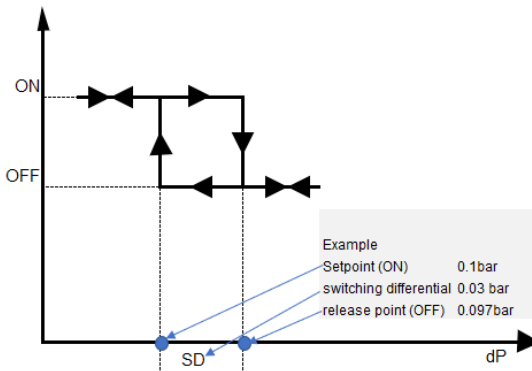
Multiple measuring ranges are available to cover all applications

The control output is ON-OFF



Use	Compatible to all common HVAC DDC and Analog Controls systems																																			
	Water differential pressure measurement in HVAC water systems																																			
	Monitoring the differential pressure in HVAC systems																																			
	Used in all common HVAC applications																																			
	Used in Commercial and Industrial Buildings																																			
Features	Low voltage ON-OFF contact output																																			
	Fixed single set point differential pressure control																																			
	Pre-setting value cannot be changed																																			
	Various pressure ranges with high precision and reliability																																			
	Professional and practical product design, withstands rough environmental conditions																																			
	Easy to use, install and maintain																																			
Product Range	<table><tr><td>Order Code</td><td>Set Point</td><td>Switching Differential</td><td>Relay Rating</td><td>IP-Rating</td><td>Repeatability</td><td>Medium Temperature Range</td></tr><tr><td>PPE2.AA</td><td>0.1bar</td><td>0.03bar</td><td rowspan="6">SPDT micro-switch, 230V / 10A</td><td rowspan="6">IP65 to IEC60529</td><td rowspan="6">better than 1%</td><td rowspan="6">-20°C...+93°C</td></tr><tr><td>PPE2.BA</td><td>0.2bar</td><td>0.045bar</td></tr><tr><td>PPE2.CA</td><td>0.25bar</td><td>0.05bar</td></tr><tr><td>PPE2.DA</td><td>0.3bar</td><td>0.05bar</td></tr><tr><td>PPE2.EA</td><td>0.4bar</td><td>0.08bar</td></tr><tr><td>PPE2.FA</td><td>0.05bar</td><td>0.02bar</td></tr></table>							Order Code	Set Point	Switching Differential	Relay Rating	IP-Rating	Repeatability	Medium Temperature Range	PPE2.AA	0.1bar	0.03bar	SPDT micro-switch, 230V / 10A	IP65 to IEC60529	better than 1%	-20°C...+93°C	PPE2.BA	0.2bar	0.045bar	PPE2.CA	0.25bar	0.05bar	PPE2.DA	0.3bar	0.05bar	PPE2.EA	0.4bar	0.08bar	PPE2.FA	0.05bar	0.02bar
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Sensor Specification	Sensor Specification	Measured	Water Differential Pressure
		Sensor Characteristics	Passive
		Sensor Output (s)	SPDT micro-switch (NO/ NC)
		Measuring Range (s)	see Product Range, Page 1
		Differential Gap	See Product Range, Page 1
		Repeatability	±1%
		Max. Pressure Difference	Max. 5bar
		Max. Static Pressure	Max. 20bar
		Medium Temperature Range	-20...+93°C
		Measuring Range (s)	See Product Range, Page 1
Technical Information	Electrical Information	Terminal Clamp	Screw terminal, max. 2.5mm ²
		Relay Rating	AC 250V, max.10A
	Mechanical Information	Cable Length	1m
		Cable Diameter	2×0.75mm ² , 105°C resistance burning cable
		Cable Entry	M16, Ø6...Ø8mm cables
		Connection Type	G1/4", male thread
		Sensing Element Position	Inside the housing
	User Interface	Set Point Adjustments	See Product Range, Page 1
	Color and Materials	Housing Cover	Black ABS, RAL 9017 (Traffic Black)
		Housing Bottom	Brass
		Diaphragm	EPDM
		Cable Gland	Black PP, RAL 9017 (Traffic Black)
	Environmental Conditions	Operation Temperature	-20°C...+85°C
		Operation Humidity	<85% r.h., no condensation
		Transport Temperature	-10°C...+70°C
		Transport Humidity	< 90% r.h.
		Storage Temperature	-10°C...+70°C
		Storage Humidity	< 85% r.h., no condensation
	Norms and Directives	IP- Rating	IP65 to IEC605
		Safety Class	III to EN 60 730
		Product Standard 1	Automatic Electric. Controls for household and similar use
		Product Standard 2	2009/EN 60 730-1
		CE Conformities to	2004/108/EG Electromagnetic Compatibility
			EMV
		CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference
		CE Electromagnetic Compatibility Interference Resistance	2000/EN60730-1 Interference Resistance
		RoHS Compatibility	RoHS 3, Directive 2015/863
		Operation Climatic Condition	IEC 60 721-3-3
		Operation Mechanical Condition	IEC 60 721-3-2 to class2M2
		Transport to Climatic Condition	IEC 60 721-3-2
		Transport Mechanical Condition	IEC 60 721-3-2 to class2M2
		Storage Climatic Condition	IEC 60 721-3-1
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2
Miscellaneous	Accessories	n.a.	
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1, e.g. PPE2.AA

	Installation Notes  Caution Observe the following general regulation for engineering and implementation: All relevant national and heavy power regulations 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  Caution 
	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.
Connections - Switching points	 
Dimensional Drawing	