4320e	Product Information	the mokan
PPE2- Series (dP)	Water Differential Pressure Switch	thermokon asia pacific

The PPE2-Series is widely used as the water flow controls in water / air cooled chillers and as monitor in water bump and filter of plate heat exchanger, tube heat exchanger and shell heat exchanger.



	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System					
	Water pressure measurement in HVAC water systems					
Use	Monitoring the flow controls of the ventilation system filters, boilers and air conditioner					
	Used in all common HVAC applications					
	Used in Commercial and Industrial Buildings					
	Voltage free contact output					
Features	Fixed single set point differential pressure					
	Pre-setting value cannot be changed to reduce unit fault and wrong installation					
	Various pressure ranges with high precision and reliability					
	Professional and practical product design, withstands rough environmental conditions					
	Easy to use, install and maintain					

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	Set Point			Return Differential						
Model	0.1bar	0.2bar	0.25bar	0.3bar	0.4bar	0.02bar	0.05bar	0.06bar	0.07bar	0.08bar
PPE2.AA	•					•				
PPE2.BA		•					•			
PPE2.CA			•					•		
PPE2.DA				•					•	
PPE2.EA					•					•

 Thermokon Asia Pacific
 PPE2- Series (dP) V1.2
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	Sensor Specification	Measured	Water Differential Pressure
Sensor Specification		Sensor Characteristics	Passive
ca		Sensor Output (s)	SPDT micro-switch (NO/ NC)
Ξ		Same as set point, see Product Range, Page 1	
ĕ		See Product Range, Page 1	
Š		Repeatability	±1%
ō		Max. Pressure Difference	Max. 5bar
ns		Max. Static Pressure	Max. 10bar
Se		Medium Temperature Range	-20°C+93°C
		Measuring Range (s)	See Product Range, Page 1
	Electrical Information	Terminal Clamp	Screw terminal, max. 2.5mm ²
	Mechanical Information	Relay Rating	AC 250V · max.10A 1m
	mechanical information	Cable Length Cable Diameter	2x0.75mm², 105°C resistance burning cable
		Cable Entry	M16, Ø6Ø8mm 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)
	Oolor and waterials	Housing Bottom	Brass
		Diaphragm	EPDM
_		Cable Gland	Black PP, RAL 9017 (Traffic Black)
<u>ō</u>	Environmental Conditions	Operation Temperature	-20°C+85°C
at		Operation Humidity	<85% r.h., no condensation
Ē		Transport Temperature	-10°C+70°C
Ę.		Transport Humidity	< 90% r.h.
Technical Information		Storage Temperature	-10°C+70°C
ca		Storage Humidity	< 85% r.h., no condensation
Ē	Norms and Directives	IP- Rating	IP54 to IEC60529
ည်		Safety Class	III to EN 60 730
ř		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 2011/65/EC
		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
	Terminal Connection		
		NO NC	
_			
Connection			
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ne			
o G			
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		Blue Brown	
	Accessories	None	
	nocessures	NOTE	
w	Shipping & Handling	Minimum Order	1 box with 1 piece
ě		Product Dimension (L x W x H) / Weight	100mm x 89mm x 62mm / 605gr.
an		Transport and Storage dimension (L x W x H) / Weight	160mm x 140mm x 75mm / 670gr.
<u>ē</u>		Package Material	Rigid Cardboards Packaging
Miscellanies		-g- ···	5
Ξ	Order Notes	Order Code	See Product Range, Page 1, e.g. PPE2.AA

Security Advice The installation and assembly of electrical equipment may only be performed by a skilled electrician. The products must not be used in any relation with equipment that supports, directly or indirectly, human health, life or with applications that can result in danger for people, animals or real value. Mounting Advices Do not try to open the brass shell in any case. Proper mounting position is important to the measuring accuracy, please mount it near the outlet or inlet of the heat exchanger. It is better to invert the switch or mount it little uper to the inlet board of the heat exchanger, the water can run out from the brass pipe. Advices Installation Notes Z! Caution The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations. The positive "+" should be connected to the High pressure connection (Inlet of the heat exchanger) and the "-" to the Low pressure connection (Outlet of the heat exchanger). Commissioning Notes Z!\\Caution The pressure switch is factory-calibrated in the vertical position. If installed horizontally, the actual value is 20Pa higher than the set value. The setting value can be set by adjusting the knob, no need to install the meter, use the "-"screwdriver to adjust the return difference. When use the switch in water chilling unit systems, to avoid the pump cavitation, please make sure the water is fullfilled and no air in before commission. 82 33 (88) Dimensional Drawing 49 26 62 48 (\bigcirc) 62 (*) (*)