

PPE2 Water Differential Pressure Switch

The PPE2-Series is widely used for water flow proving in water / air cooled chillers and as a monitor for water pumps and filters of plate heat exchangers.

Use	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System Water pressure measurement in HVAC water systems 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					
Features	Voltage free contact output 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					
Product Range	Model PPE2.AA	Set Point	Return Differential			
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ç	Sensor Specification	Measured	Water Differential Pressure
Sensor Specification		Sensor Characteristics	
ica		Sensor Output (s)	SPDT micro-switch (NO/ NC)
cif		Measuring Range (s)	Same as set point, see Product Range, Page 1
be		Differential Gap	See Product Range, Page 1
S		Repeatability	±1%
or		Max. Pressure Difference	Max. 5bar
su		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
		Relay Rating	AC 250V, max.10A
	Mechanical Information	Cable Length	1m
		Cable Diameter	2x0.75mm², 105 ℃ resistance burning cable
		Cable Entry	M16, Ø6Ø8mm cables
		Connection Type	G1/4", NPT 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
u		Cable Gland	Black PP, RAL 9017 (Traffic Black)
atio	Environmental Conditions	Operation Temperature	-20°C+85°C
Ĕ		Operation Humidity	<85% r.h., no condensation
o		Transport Temperature	-10°C+70°C
<u>l</u>		Transport Humidity	< 90% r.h.
a		Storage Temperature	-10°C+70°C
ic		Storage Humidity	< 85% r.h., no condensation
ř	Norms and Directives	IP- Rating	IP54 to IEC60529
Technical Information		Safety Class	III to EN 60 730
F		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		
5			
Connection			
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0		l l Blue Brown	
		Blue Blown	
	Accessories	None	
es		None	
	Shipping & Handling	Minimum Order	1 box with 1 piece
	Shipping & Handling	Minimum Order Product Dimension (L x W x H) / Weight	1 box with 1 piece 100mm x 89mm x 62mm / 605gr.
an			160mm x 140mm x 75mm / 670gr.
Miscellanies		Transport and Storage dimension (L x W x H) / Weight	-
		Package Material	Rigid Cardboards Packaging
Ϊ	Order Notes	Order Code	See Product Range Page 1 o g PPE2 AA
	UIDEI INUIES		See Product Range, Page 1, e.g. PPE2.AA
		HEVA	
		Control Agen	cies
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	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.			
sional Drawing Advices	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.			
	Installation Notes	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	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.			
Dimensional					
HEVAC					
Control Agencies					