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

Model	Set Point	Differential
PPE2.AA	FIXED 0.1 bar	FIXED 0.03 bar

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Sensor Specification

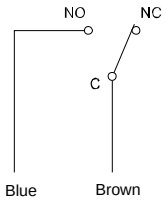
Sensor Specification	Measured	Water Differential Pressure
	Sensor Characteristics	Passive
	Sensor Output (s)	SPDT micro-switch (NO/ NC)
	Measuring Range (s)	Same as set point, see Product Range, Page 1
	Differential Gap	See Product Range, Page 1
	Repeatability	±1%
	Max. Pressure Difference	Max. 5bar
	Max. Static Pressure	Max. 20bar
	Medium Temperature Range	-20°C...+93°C
	Measuring Range (s)	See Product Range, Page 1

Technical Information

Electrical Information	Terminal Clamp	Screw terminal, max. 2.5mm²
	Relay Rating	AC 250V，max.10A
Mechanical Information	Cable Length	1m
	Cable Diameter	2×0.75mm², 105℃ resistance burning cable
	Cable Entry	M16, Ø6...Ø8mm 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
	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 IEC60529
	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 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

Connection

Terminal Connection



Miscellanies

Accessories	None	
Shipping & Handling	Minimum Order	1 box with 1 piece
	Product Dimension (L x W x H) / Weight	100mm x 89mm x 62mm / 605gr.
	Transport and Storage dimension (L x W x H) / Weight	160mm x 140mm x 75mm / 670gr.
	Package Material	Rigid Cardboards Packaging
Order Notes	Order Code	See Product Range, Page 1, e.g. PPE2.AA

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Advices

Security Advice

Caution

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

Caution

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

Caution

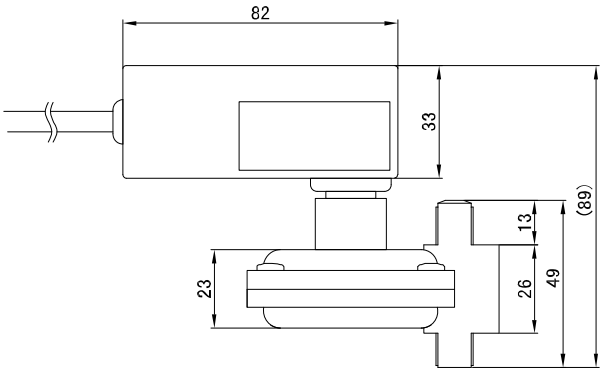
The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations.
The positive "+" should be connected to the High pressure connection (Inlet of the heat exchanger) and the "-" to the Low pressure connection (Outlet of the heat exchanger).

Commissioning Notes

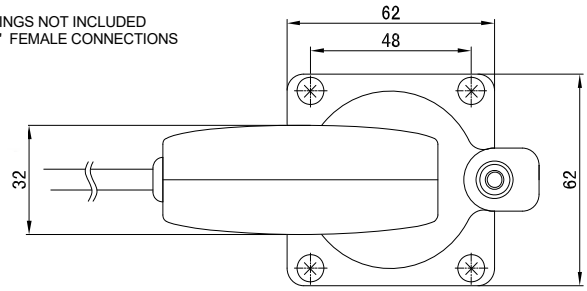
Caution

The pressure switch is factory-calibrated in the vertical position. If installed horizontally, the actual value is 20Pa higher than the set value.
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 Drawing



PIPE FITTINGS NOT INCLUDED
USE G1/4" FEMALE CONNECTIONS



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