



TI4250en

**Technical Information****thermokon**<sup>®</sup>  
asia pacific**PPI2- Series (F)****Water Flow Switch  
with ON/OFF output**

The PPI2-Series (F) is used as water flow controls in water / air cooled chillers

Monitoring of water pump, mechanical equipment, compressor and refrigeration equipment

The Switch covers all common used pipe sizes in the HVAC markets

The switch outputs are ON/OFF

**Use**

Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System

Water flow controls in HVAC water systems

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

**Features**

Voltage free contact output

Low pressure loss, good repeatability, dirt resistant

Separation of electrical and hydraulic components

Corrosion resistant

Professional and practical product design, withstands rough environmental conditions

Easy to use, install and maintain

**Product Range**

Order Code	Output Rating	Thread Size	Pipe Size	Max. flow (m3/h)	Water Flow	Water Flow	Water Flow	Water Flow	Repeatability	Medium Temperature Range
					Paddle 1 (m3/h)	Paddle 1/2 (m3/h)	Paddle 1/2/3 (m3/h)	Paddle 1/2/3/4 (m3/h)		
PPI2.AA	SPDT micro-switch, 230V / 3A	3/4"	DN32	6	1.7-1.8	—	—	—	better than 1%	-20°C...+93°C
			DN40	9	1.7-2.4	—	—	—		
			DN50	15	4.5-4.9	1.2-1.4	—	—		
			DN65	24	9.5-11.2	3.2-3.6	—	—		
PPI2.BA		1"	DN80	36	13.5-14.8	5.9-7.4	1.4-2.7	—		
			DN100	60	25.8-30.2	8.3-8.8	3.3-3.9	2.3-3.8		
			DN125	85	35.5-41.6	11.7-13.1	5.1-5.8	3.1-3.8		
			DN150	110	49.6-54.7	14.8-16.9	6.2-6.6	4.0-4.5		
			DN200	203	88.8-97.3	26.3-30.0	11.0-11.7	7.1-8.0		
			DN250	310	137.7-151.9	41.1-46.9	17.2-18.3	11.1-12.5		

All Information and technical data are subject to alteration

<b>Sensor Specification</b>	Sensor Specification	Measured	Flow	
		Sensor Characteristics	Passive	
		Sensor Output (s)	SPDT micro-switch (NO/ NC)	
		Pressure Lost	0.01bar at max. flow	
		Max. Over Pressure	Max. 25bar	
		Medium Temperature Range	-30°C...+110°C	
		Measuring Range (s)	Optional paddles, see Product Range, Page 1	
<b>Technical Information</b>	Electrical Information	Terminal Clamp	Screw terminal, max. 2.5mm <sup>2</sup>	
		Relay Rating	AC 250V, max.3A	
	Mechanical Information	Cable Length	1m	
		Cable Diameter	2x0.75mm <sup>2</sup> , 105°C resistance burning cable	
		Cable Entry	M16, Ø6...Ø8mm cables	
		Connection Type	G3/4"or G1", male thread	
	User Interface	n.a.		
	Color and Materials	Housing Cover	Black ABS, RAL 9017 (Traffic Black)	
		Housing Bottom	Nickel plated brass	
		Paddle	Brass	
		Cable Gland	Black PP, RAL 9017 (Traffic Black)	
	Environmental Conditions	Operation Temperature	-20°C...+85°C	
		Operation Humidity	100% r.h., with 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 3 EU 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		
	<b>Miscellanies</b>	Accessories	Mounting Kit, Included in delivery	One set of paddles
		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. PPI2.AA

**Installation Notes**

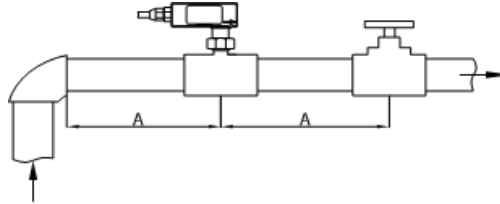
Observe the following general regulation for engineering and implementation:



- 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.

**Connections**

T1	NC / Low Flow
T2	NO / Hight Flow
T3	Common



**Dimensional Drawing**

