

PPI1- Series (P)

Product Information

Water Pressure Sensor with Active Output



The PPI1- Series (P) is designed to measure water pressure in

HVAC systems with light aggressive liquids and refrigerants

The sensor is temperature compensated

The sensor operates with low power supply

Easy to use, install and maintain

The control output is active



	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System
Use	Pressure measurement in HVAC water systems
ñ	Used in all common HVAC applications
	Used in Commercial and Industrial Buildings
	Sensor with active output
	Temperature compensated, high precision device
Features	Strong anti-interference ability, perfect long-term stability
ц	Professional and practical product design, withstands rough environmental conditions

	Order Code	Power Supply	Pressure Range	Output Signal	Accuracy	IP Protection	Measuring Membrane
	PPI1.BAa	AC/DC 24V ±10%	01bar	010V	<= 0.5% Full Scale		High Performance Stainless Steel
	PPI1.DAa		02bar				
	PPI1.EAa		02.5bar				
	PPI1.FAa		04bar				
	PPI1.GAa		06bar				
	PPI1.HAa		010bar				
	PPI1.IAa		016bar				
40	PPI1.KAa		025bar				
ınge	PPI1.LAa		040bar				
t Ra	PPI1.MAa		060bar			IP65	
Product Range	PPI1.NAa		0100bar				
Pro	PPI1.BDa	DC 24V ±10%	01bar	420mA			
	PPI1.DDa		02bar				
	PPI1.EDa		02.5bar				
	PPI1.FDa		04bar				
	PPI1.GDa		06bar				
	PPI1.HDa		010bar				
	PPI1.IDa		016bar				
	PPI1.KDa		025bar				
	PPI1.LDa		040bar				
	PPI1.MDa		060bar				
	PPI1.NDa		0100bar				

All Information and technical data are subject to alteration

 Thermokon Asia Pacific
 PPI1- Series (P) V20.1
 Page 1/3

	Sonsor Specification	Magaurad	Water Pressure		
	Sensor Specification	Measured	Water Pressure		
		Sensor Characteristics	Active		
		Sensor Output (s)	010V / 420mA		
ion		Accuracy	0.5% Full Scale @ 25°C		
Sensor Specification		Compensated Temperature Range	-10°C+80°C		
		Temperature Drift (FS), typically	±0.02% FS /℃		
		Long Term Stability	±0.2% FS / Year		
		Response Time	<1ms		
		Max. Over Pressure	200% of Measuring Range		
		Busting Pressure (diaphragm)	300% of Measuring Range		
		Medium Temperature Range	-40°C+125°C		
		Measuring Range (s)	See Product Range, Page 1		
	Electrical Information	Power Supply			
		Type: PPI1.xAa	DC 24V (±10%) or AC 24V (±10%)		
		Type: PPI1.xDa	DC 24V (±10%)		
		Frequency	50 / 60 Hz at AC 24V		
		Insulation Resistant	250ΜΩ		
		Terminal Clamp	Plug-in connector		
		Power Consumption	<u>-9</u>		
		Type: PPI1.xAa	≤ 0.3VA / AC 24V; ≤ 0.3VA / DC 24V		
		Type: PPI1.xDa	≤ 0.5VA / DC 24V		
	Mechanical Information	Cable Entry	Angle Plug, DIN 43 650, Construction A		
		Sensing Element Position	Inside the housing		
		Connection Type	G1/4", male thread		
	User Interface	None			
	Color and Materials	Housing Cover	Black PA, RAL 9017 (Traffic Black)		
		Housing Bottom	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301		
		Diaphragm	US:AISI 316L; EU: EN/DIN 1.4404		
ion		O- Ring	VITRON©		
mation		Cable Gland	Black PA, RAL 9017 (Traffic Black)		
ᅙ	Environmental Conditions	Operation Temperature	-25°C+70°C		
ca		Operation Humidity	100% r.h., with condensation		
Technical Infor		Transport Temperature	-35°C+70°C		
ĕ		Transport Humidity	< 90% r.h.		
		Storage Temperature	-10°C+70°C		
		Storage Humidity	< 85% r.h., no condensation		
	Norms and Directives	IP- Rating	IP67 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		
S	Accessories	Mounting Kit, Included in delivery	n/a		
Miscellanies	Shipping & Handling	Minimum Order	1 box with 1 piece		
		Package Material	Rigid Cardboards		
	Order Notes	Order Code	See Product Range, Page 1, e.g. PPI1.BAa		
	0.001 110100	5.46. 0040	555 Froduct Nango, Fago 1, 6.g. FFTI.DAa		



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

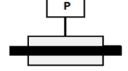
Third party specifications, e.g. general contractors or constructors

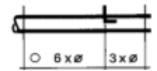
Mounting Advices



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.



PPI1.xAa (1) UB+ (AC/DC24V)



PPI1.xDa

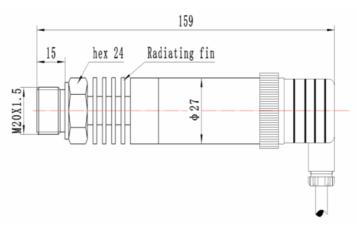


Shield

(1) UB+ (DC24V)

(2) n.a.

(2) GROUND



Dimensional Drawing