## 350e Product Information TPS2- Series (T) Pipe Surface Temperature Passive Sensor



The TPS2-Series is designed to measure temperature on pipe surfaces. Several mounting lengths are available to fit all common sizes. The sensor output is passive.



Use

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

Universal temperature measurement in air and water applications

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

Features

Sensor with passive output

Different pocket and cable lengths for all common HVAC applications

High performance, silicon cables

Professional and practical product design, withstands rough environmental conditions

Product Range

Model	Sensor Output						Sensor Shape		Cable Length	
	PT100	PT1000	Ni1000	NTC10k	NTC10k Pre	NTC20k	Copper plate (30x34mm,R=23mm)	Aluminium plate (10x35x6mm)	1M	2M
TPS2.BF	•						•	,	•	
TPS2.BG		•					•		•	
TPS2.BK			•				•		•	
TPS2.BP				•			•		•	
TPS2.BQ					•		•		•	
TPS2.BR						•	•		•	
TPS2.CF	•						•			•
TPS2.CG		•					•			•
TPS2.CK			•				•			•
TPS2.CP				•			•			•
TPS2.CQ					•		•			•
TPS2.CR						•	•			•
TPS2.IF	•							•	•	
TPS2.IG		•						•	•	
TPS2.IK			•					•	•	
TPS2.IP				•				•	•	
TPS2.IQ					•			•	•	
TPS2.IR						•		•	•	
TPS2.KF	•	_						•		•
TPS2.KG		•						•		•
TPS2.KK			•					•		•
TPS2.KP				•				•		•
TPS2.KQ					•			•		•
TPS2.KR						•		•		•

⊑	Sensor Specification	Measured	Temperature		
Sensor Specification		Sensor Characteristics	Passive		
		Sensor Output (s)	See Product Range, Page 1		
ij		Measuring Current	<1mA		
Бē		Accuracy			
S		Type TPS2.xF/xG	± 0.3K @ 0°C DIN EN 60751, class B		
ő		Type TPS2.xP/xQ/xR	± 0.5K @ 25°C		
Sens		Type TPS2.xK	± 0.4K @ 0°C DIN EN 43760, class B		
		Measuring Range (s)	-40°C+150°C		
tion	Electrical Information	Terminal Clamp	Screw terminal, max. 1.5mm²		
	Mechanical Information	Cable Entry	M16, Ø6Ø8mm cables		
		Sensing Element Position	external, bottom of the housing		
	User Interface	None			
	Color and Materials	Housing Cover	White PA6, RAL9001 (Cream White)		
		Housing Bottom	White PA6, RAL9001 (Cream White)		
		Lock Screws	Zinc ZLO410, Fast Connectors 90°		
		Cable Gland	White PA6, RAL9001 (Cream White)		
		Gland Rubber Seal	White TBS, RAL9010 (Pure White)		
		Clamp Fastener	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.30		
		Sensor Pocket	Brass		
na	Environmental Conditions	Operation Temperature	-25°C+70°C		
Technical Information		Operation Humidity	100% r.h., with condensation		
		Transport Temperature	-35°C+70°C		
		Transport Humidity	< 90% r.h.		
		Storage Temperature	-10°C+70°C		
ਓ		Storage Humidity	< 85% r.h., no condensation		
<u>–</u>	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		
		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 to class2M2		
		Transport Mechanical Condition	IEC 60 721-3-2		
		Storage Climatic Condition	IEC 60 721-3-2 to class2M2		
		Storage Mechanical Condition	IEC 60 721-3-1 IEC 60 721-3-1 to class2M2		
	Terminal Connection	Cloudge mountained Condition	ize so vz. s v to dissering		
		Sensor Sensor Sensor			
_					
Ę					
nection					
Ĕ		(1) 3 (1) 3 (1) 3 (2) 4	(2)		
Con			<u>.                                    </u>		
		999			
		2-wire 3-wire 4-wire	)		
		standard optional options	al		
	Accessories	Accessory not included in delivery	TPAO.B for DN15 DN50 or		
			TPAO.A for DN65DN800		
Miscellanies	Shipping & Handling	Minimum Order	1 box with 10 pieces		
		Product Dimension (L x W x H) / ~Weight	90mm x 65mm x 50mm / 80gr.		
		Transport and Storage dimension (L x W x H) / $\sim$ Weight	195mm x 95mm x 65mm / 205gr.		
		Package Material	Rigid Cardboards Packaging		
Σ	Order Notes	Order Code	See Product Range, Page 1, e.g. TPS2.AF		

