

Product Information

Duct Temperature Sensor with Passive Output



TDI2-Series (T)

The TDI2-Series (T) is designed to measure temperature in air ducts or water pipes. The temperature sensor output is passive. Several lengths are available to cover all common duct sizes.



Use

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

Temperature measuring in air ducts and water pipes (with accessory)

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

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Product Range

Sensor with passive output

Different immersion lengths for all common air duct and water pipe sizes

Professional and practical product design, withstands rough environmental conditions

Easy to use, install and maintain

Order Code	Duct / Pipe Sensor			Thermowell					
	Sensor Output	Sensor Pocket (L)	Order Code	Lenghts (L)	Thread	max. flow	Presure Rating	Material	max. Temp.
TDI2.AFa	PT100		<u> </u>						
TDI2.AGa	PT1000								
TDI2.APa	NTC10k	ø6x50mm	TPA0.Ga	ø9mmx50mm	G1/2"	28m/s	PN40	V4A	26010
TDI2.AQa	NTC10k Pre	DOXOUIIII	IFMU.Ga	DOMINICA	0 112	2011115	F1840	***	200 C
TDI2.ARa	NTC20k								
TDI2.AKa	NI1000								
TDI2.GFa	PT100		TPA0.Ma	ø9mmx100mm	G1/2"	11m/s	PN40	V4A	260°C
TDI2.GGa	PT1000	1							
TDI2.GPa	NTC10k	ø6x100mm							
TDI2.GQa	NTC10k Pre								
TDI2.GRa	NTC20k								
TDI2.GKa	NI1000								
TDI2.BFa	PT100								
TDI2.BGa	PT1000	ø6x150mm	TPA0.Ha	ø9mm×150mm	G1/2"	7m/s	PN40	V4A	260°C
TDI2.BPa	NTC10k								
TDI2.BQa	NTC10k Pre								
TDI2.BRa	NTC20k								
TDI2.BKa	NI1000								
TDI2.CFa	PT100								
TDI2.CGa	PT1000	ø6x200mm	TPA0.la	ø9mmx200mm	G1/2"	6m/s	PN40	V4A	260°C
TDI2.CPa	NTC10k								
TDI2.CQa	NTC10k Pre								
TDI2.CQa	NTC20k								
TDI2.CKa	NI1000								
TDI2.FFa	PT100								
TDI2.FGa	PT1000	ø6x250mm	TPA0.Ka	ø9mmx250mm	G1/2"	3m/s	PN40	V4A	260°C
TDI2.FPa	NTC10k								
TDI2.FPa	NTC10k NTC10k Pre								
TDI2.FRa	NTC20k								
TDI2.FKa	NI1000								
TDI2.DFa	PT100	ø6x300mm	TPA0.La	ø9mmx300mm			b		
TDI2.DGa	PT1000				G1/2"	2m/s	PN40	V4A	260°C
TDI2.DPa	NTC10k								
TDI2.DQa	NTC10k Pre								
TDI2.DRa	NTC20k								
TDI2.DKa	NI1000								
TDI2.EFa	PT100								
TDI2.EGa	PT1000]							
TDI2.EPa	NTC10k	ø6x450mm	TPA0.Na	ø9mmx450mm	G1/2"	1m/s	PN40	V4A	260°C
TDI2.EQa	NTC10k Pre	00043011111							
TDI2.ERa	NTC20k]							
TDI2.EKa	NI1000								

	Sensor Specification	Measured Sensor Characteristics	Temperature			
Sensor Specifications		Passive				
atic		Sensor Output (s)	See Product Range, Page 1			
ij		Measuring Current	<1mA			
ec.		Accuracy				
Sp		Type PT100 / PT1000	± 0.3K @ 0°C DIN EN 60751, class B			
šor		Type NTC10k / NTC10k Pre / NTC20k	± 0.5K @ 25°C			
ens		Type NI1000	± 0.4K @ 0°C DIN EN 43760, class B			
S		Standard Measuring Range	-20°C+120°C			
		Total Measuring Range	-40°C+140°C			
	Electrical Information	Terminal Clamp	Screw terminal, max. 1.5mm²			
	Mechanical Information	Immersion Rod Diameter	Ø6mm			
		Immersion Rod Length	See Product Range, Page 1			
		Cable Entry	M16, Ø6Ø8mm cables			
		Sensing Element Position	external, top of the immersion rod			
	User Interface	None				
	Color and Materials	Housing Cover	White ABS, RAL9001 (Cream White)			
		Housing Bottom	White ABS, RAL9001 (Cream White)			
		Lock Screws	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.30			
		Lock Nuts	Brass			
		Cable Gland	Red ABS, RAL2002 (Vermilion)			
<u>_</u>		Gland Rubber Seal	White TBS, RAL9010 (Pure White)			
Technical Information		Protection Caps	Red ABS, RAL2002 (Vermilion)			
		Immersion Rod	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.30			
		Cable	Silicon, RAL 3001 (Signal Red)			
	Environmental Conditions	Operation Temperature	-25°C+70°C			
		Operation Humidity	100% r.h., with condensation			
두		Transport Temperature	-35°C+70°C			
ခို		Transport Humidity	< 90% r.h.			
		Storage Temperature	-10°C+70°C < 85% r.h., no condensation			
		Storage Humidity				
	Norms and Directives	IP- Rating	IP65 to IEC60529			
		Safety Class	III to EN 60 730 Automatic Electric. Controls for household and similar use RoHS 2011/65/EC			
		Product Standard 1				
		RoHS Compatibility				
		Operation Climatic Condition	IEC 60 721-3-3 IEC 60 721-3-2 to class2M2 IEC 60 721-3-2 IEC 60 721-3-2 to class2M2			
		Operation Mechanical Condition				
		Transport to Climatic Condition				
		Transport Mechanical Condition				
		Storage Climatic Condition	IEC 60 721-3-1			
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2			
	Terminal Connection					
		Sensor Sensor	Sensor			
		Jenson Jenson				
		bro bro	red whi			
		brown white white	red red white			
on						
Connection						
		(1)3 (1)3 (1)3	ee@®			
		2- wires 3- wires	4- wires			
		standard optional	optional			
Miscellanies	Accessories	Mounting Kit, Included in delivery	TDK0.A			
		Accessory not included in delivery	Immersion Pockets			
		•				
<u>=</u>	Shipping & Handling	Minimum Order	1 box with 2 pieces, multiple of 2 pieces			
SC		Package Material	Rigid Cardboards Packaging			
-	la	Order Code	See Product Range, Page 1, e.g. TDI2.AFa			
Σ	Order Notes	Order Code	occirioddol Marigo, i ago 1, c.g. 1512.711 a			

TDI2-Series (T) V18.1

Page 2/3

Thermokon Asia Pacific

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

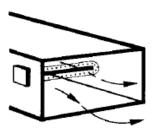
Third party specifications, e.g. general contractors or constructors

Mounting Advices



Advices

Dimensional Drawing







Under normal environmental conditions we recommend a recalibration interval of 2 year to maintain the indicated accuracy.

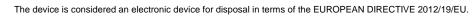
Refrain from touching the sensitive sensor. Any touch of the same will result in an expiration of the warranty.

At high ambient temperatures and high humidity, or when use the sensor in aggressive gases,

an early recalibration or a change of the sensor can become necessarily.

Such a recalibration or a probable sensor change may not come under the general warranty

Disposal Notes



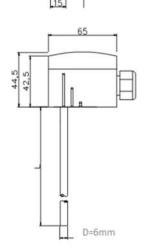


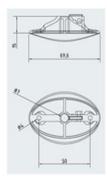
The Device may not be disposed as domestic garbage.

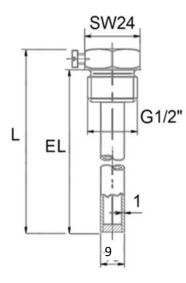
The device most be disposed through channels provided for this purpose.

It is mandatory to complying with local currently applying laws and regulations.

65







Active Sensor Output