

TI251en

Technical Information

thermokon asia pacific

TDI2- Series (T)

Duct Temperature Sensor with Passive Output

The TDI2- Series (T) is designed to measure temperature in air ducts or water pipes

Several lengths are available to cover all common duct sizes

Professional and practical product design, withstands rough environmental conditions

The temperature sensor output is active



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

Features

USE

Sensor with passive output

Professional and practical product design, withstands rough environmental conditions

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

Easy to use, install and maintain

Product Range

Order Code	Duct / Pipe Sensor			
Order Code	Sensor Output	Sensor Pocket (L)		
TDI2.AFa	PT100			
TDI2.AG ₃	PT1000	1		
TDI2.APa	NTC10k	ø6x50mm		
TDI2.AQ ₃	NTC10k Pre			
TDI2.ARa	NTC20k			
TDI2.ALa	LG-NI1000			
TDI2.GFa	PT100			
TDI2.GGs	PT1000	1		
TDI2.GPa	NTC10k	-6-100		
TDI2.GQs	NTC10k Pre	ø6x100mm		
TDI2.GRa	NTC20k]		
TDI2.GLa	LG-NI1000			
TDI2.BFa	PT100			
TDI2.BGa	PT1000			
TDI2.BPa	NTC10k	ø6x150mm		
TDI2.BQs	NTC10k Pre]		
TDI2.BRa	NTC20k			
TDI2.BLa	LG-NI1000			
TDI2.CFa	PT100			
TDI2.CG ₃	PT1000			
TDI2.CPa	NTC10k	ø6x200mm		
TDI2.CQ ₃	NTC10k Pre	B0X200IIIII		
TDI2.CRs	NTC20k			
TDI2.CL ₃	LG-NI1000			
TDI2.FFa	PT100]		
TDI2.FGs	PT1000	[
TDI2.FPa	NTC10k	ø6x250mm		
TDI2.FQs	NTC10k Pre			
TDI2.FR ₃	NTC20k]		
TDI2.FLa	LG-NI1000			
TDI2.DFa	PT100	[
TDI2.DGs	PT1000			
TDI2.DPs	NTC10k	ø6x300mm		
TDI2.DQs	NTC10k Pre			
TDI2.DRs	NTC20k			
TDI2.DLa	LG-NI1000			
TDI2.EFa	PT100			
TDI2.EGa	PT1000	ø6x450mm		
TDI2.EPa	NTC10k			
TDI2.EQa	NTC10k Pre			
TDI2.ERs	NTC20k			
TDI2.ELa	LG-NI1000			

	Thermowell					
Order Code			Therm	nowell		
	Lengths (L)	Thread	max. flow	Pressure Rating	Material	max. Temp.
TPA0.Gs	ø3mmx50mm	G1/2"	28m/s	PN40	V4A	260°C
TPA0.Ms	ø9mmx100mm	G1/2"	11m/s	PN40	V4A	260°C
TPA0.Ha	ø9mmx150mm	G1/2"	Tmls	PN40	V4A	260°C
TPA0.ls	ø9mmx200mm	G1/2"	6m/s	PN40	V4A	260°C
TPA0.Ks	ø9mmx250mm	G1/2"	3m/s	PN40	V4A	260°C
TPA0.La	ø9mmx300mm	G1/2"	2m/s	PN40	V4A	260°C
TPA0.Na	ø9mmx450mm	G1/2"	1m/s	PN40	V4A	260°C

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	Sensor Specification	Measured	Temperature
		Sensor Characteristics	Passive
Sensor Specifications		Sensor Output (s)	PT / NTC / NI
		Measuring Current	<1mA
		Accuracy	
		Type PT100 / PT1000	± 0.3K @ 0°C DIN EN 60751, class B
		Type NTC10k / NTC10k Pre / NTC20k	± 0.3K @ 25°C
U)		Type LG-NI1000	± 0.4K @ 0°C DIN EN 43760, class B
		Measuring Range	-50°C+150°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	n/A	
	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. 1.301
		Lock Nuts	Brass
		Cable Gland	Red ABS, RAL2002 (Vermilion)
		Gland Rubber Seal	White TBS, RAL9010 (Pure White)
Ĕ		Protection Caps	Red ABS, RAL2002 (Vermilion)
al Information		Immersion Rod	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301
lufo		Cable	black, TPEE
	Environmental Conditions	Operation Temperature	-25°C+70°C
Technic		Operation Humidity	100% r.h., with condensation
Te		Transport Temperature	-35°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
		RoHS Compatibility	RoHS 3, Directive 2015/863
neous		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
	Accessories	Mounting Kit, Included in delivery	TDK0.G
		Accessory not included in delivery	Immersion Pockets
	Shipping & Handling	Minimum Order	1 box with 2 pieces, multiple of 2 pieces
<u>a</u>			
liscella		Package Material	Rigid Cardboards Packaging

Installation Notes



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

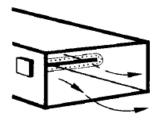
Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

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

Mounting Advices



Advices







Disposal Notes



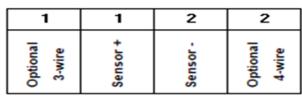
The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.

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.

Connection

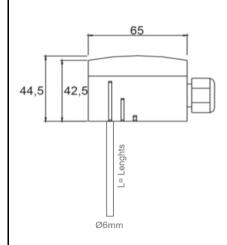


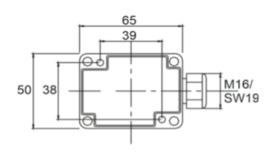
wire connection optional

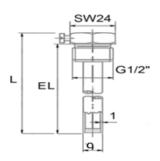
2- wire connection standard

4- wire connection optional

Dimensional Drawing







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