

	TI251en	Technical Information	
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



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
Features	Sensor with passive output All Sensors with upgraded accuracy 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

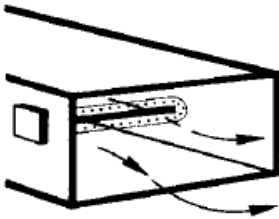
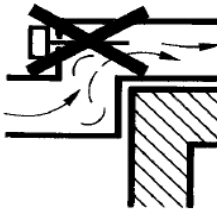
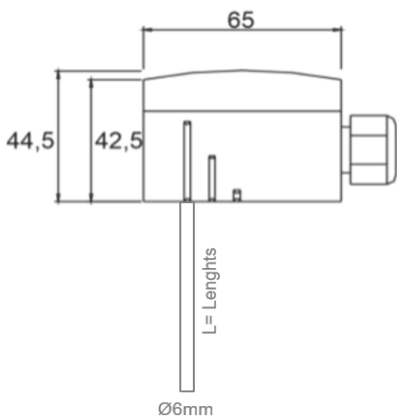
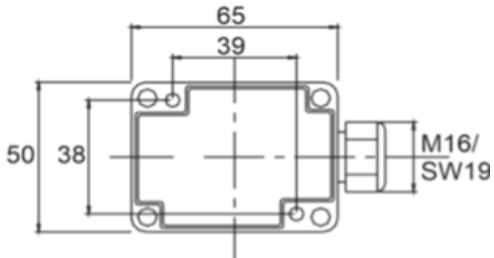
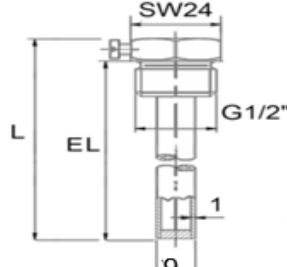
Product Range

Order Code	Duct / Pipe Sensor			Thermowell												
	Sensor Output	Sensor Accuracy	Sensor Pocket (L)	Order Code	Lengths (L)	Thread	max. flow	Pressure Rating	Material							
TDI2.AF ₃	PT100	± 0.15K @ 0°C	ø6x50mm	TPA0.G ₃	ø3mm x 50mm	G1/2"	28m/s	PN40	V4A							
TDI2.AG ₃	PT1000															
TDI2.AP ₃	NTC10k															
TDI2.AQ ₃	NTC10k Pre															
TDI2.AR ₃	NTC20k															
TDI2.AK ₃	NH1000	± 0.4K @ 0°C	ø6x100mm	TPA0.M ₃	ø3mm x 100mm	G1/2"	11m/s	PN40	V4A							
TDI2.AL ₃	LG-NH1000															
TDI2.GF ₃	PT100															
TDI2.GG ₃	PT1000															
TDI2.GP ₃	NTC10k															
TDI2.GQ ₃	NTC10k Pre	± 0.25K @ 25°C	ø6x150mm	TPA0.H ₃	ø3mm x 150mm	G1/2"	7m/s	PN40	V4A							
TDI2.GR ₃	NTC20k															
TDI2.GK ₃	NH1000															
TDI2.GL ₃	LG-NH1000															
TDI2.BF ₃	PT100															
TDI2.BG ₃	PT1000	± 0.15K @ 0°C	ø6x200mm	TPA0.I ₃	ø3mm x 200mm	G1/2"	6m/s	PN40	V4A							
TDI2.BP ₃	NTC10k															
TDI2.BQ ₃	NTC10k Pre															
TDI2.BR ₃	NTC20k															
TDI2.BK ₃	NH1000															
TDI2.BL ₃	LG-NH1000	± 0.4K @ 0°C	ø6x250mm	TPA0.K ₃	ø3mm x 250mm	G1/2"	3m/s	PN40	V4A							
TDI2.CF ₃	PT100															
TDI2.CG ₃	PT1000															
TDI2.CP ₃	NTC10k															
TDI2.CQ ₃	NTC10k Pre															
TDI2.CR ₃	NTC20k	± 0.25K @ 25°C	ø6x300mm	TPA0.L ₃	ø3mm x 300mm	G1/2"	2m/s	PN40	V4A							
TDI2.CK ₃	NH1000															
TDI2.CL ₃	LG-NH1000															
TDI2.FF ₃	PT100															
TDI2.FG ₃	PT1000															
TDI2.FP ₃	NTC10k	± 0.15K @ 0°C	ø6x450mm	TPA0.N ₃	ø3mm x 450mm	G1/2"	1m/s	PN40	V4A							
TDI2.FQ ₃	NTC10k Pre															
TDI2.FR ₃	NTC20k															
TDI2.FK ₃	NH1000															
TDI2.FL ₃	LG-NH1000															
TDI2.DF ₃	PT100	± 0.15K @ 0°C	ø6x300mm	TPA0.L ₃	ø3mm x 300mm	G1/2"	2m/s	PN40	V4A							
TDI2.DG ₃	PT1000															
TDI2.DP ₃	NTC10k															
TDI2.DQ ₃	NTC10k Pre															
TDI2.DR ₃	NTC20k															
TDI2.DK ₃	NH1000	± 0.4K @ 0°C	ø6x450mm	TPA0.N ₃	ø3mm x 450mm	G1/2"	1m/s	PN40	V4A							
TDI2.DL ₃	LG-NH1000															
TDI2.EF ₃	PT100															
TDI2.EG ₃	PT1000															
TDI2.EP ₃	NTC10k															
TDI2.EQ ₃	NTC10k Pre	± 0.25K @ 25°C														
TDI2.ER ₃	NTC20k															
TDI2.EK ₃	NH1000															
TDI2.EL ₃	LG-NH1000	± 0.4K @ 0°C														

All Information and technical data are subject to alteration

Sensor Specifications	Sensor Specification	Measured	Temperature
		Sensor Characteristics	Passive
		Sensor Output (s)	PT / NTC / NI
		Measuring Current	<1mA
		Accuracy	
		PT100 / PT1000	± 0.15K @ 0°C DIN EN 60751, class A
		NTC10k / NTC10k Pre / NTC20k	± 0.25 @ 25°C
Technical Information		NI1000 / LG-NI1000	± 0.4K @ 0°C DIN EN 43760, class B
		Measuring Range	-50°C...+150°C
	Electrical Information	Terminal Clamp	Screw terminal, max. 1.5mm ²
	Mechanical Information	Immersion Rod Diameter	Ø6mm
		Immersion Rod Length	See Product Range, Page 1
		Cable Entry	M16, Ø6...Ø8mm 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	WhiteABS, RAL2002 (Vermilion)
		Gland Rubber Seal	White TBS, RAL9010 (Pure White)
		Protection Caps	White ABS, RAL2002 (Vermilion)
		Immersion Rod	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301
		Cable	Black, TPEE
	Environmental Conditions	Operation Temperature	-25°C...+70°C
		Operation Humidity	100% r.h., with condensation
		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
		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
Miscellaneous	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
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1, e.g. TD12.AF

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Advices	Installation Notes ! Caution 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 ! Caution   								
	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	<table><tr><td>1</td><td>1</td><td>2</td><td>2</td></tr><tr><td>Optional 3-wire</td><td>Sensor +</td><td>Sensor -</td><td>Optional 4-wire</td></tr></table> 3- wire connection optional 2- wire connection standard 4- wire connection optional	1	1	2	2	Optional 3-wire	Sensor +	Sensor -	Optional 4-wire
1	1	2	2						
Optional 3-wire	Sensor +	Sensor -	Optional 4-wire						
Dimensional Drawing	  								
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