

TI551en

Technical Information



TDE2-Series (T_av)

Duct Temperature Average Passive Sensor with passive output

The TDE2- Series (T_av) is designed for the average temperature measurement in

air ducts, air out/inlets or heat/cool registers

The temperature is measured over the full length of the sensor rod

Several lengths are available to cover all common applications

The sensor output is passive



	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System
Use	Averaging temperature measurements in air ducts
	Used in all common HVAC applications
	Used in Commercial and Industrial Buildings
	Sensor with passive output
	Different immersion lengths for all common air duct

Features

Measuring over the full length of the sensor rod, no point measuring

Vibration protection via a protection spring

Professional and practical product design, withstands rough environmental conditions

Easy to use, install and maintain

-
<u>•</u>
ರಾ
⊆
a
\sim
·
Ö
3
ਰ
0
_
ᇿ

Model	Sensor Output	Measuring Ranges	Temperature Rod Length	Temperature Rod Diameter	Measuring Method
TDE2.AGa	PT1000		3000mm		nersion
TDE2.AKa	NI1000	40100°C	3000mm	Ø9mm	over full length of the immersion rod
TDE2.BGa	PT1000	40	6000mm	90	l length c
TDE2.BKa	NI1000		6000mm		over ful

^{*} default value

	Sensor Specification	Measured	Temperature
		Sensor Characteristics	passive
		Sensor Output (s)	PT1000; NI1000
		Accuracy	
		PT1000	± 0.3K @ 0°C DIN EN 60751, class B
		NI1000	± 0.4K @ 0°C DIN EN 43760, class B
		Measuring Range	-40°C100°C
	Mechanical Information	Immersion Rod Diameter	Ø9mm
		Immersion Rod Length	3000mm/ 6000mm
		Terminal Clamp	Screw terminal, max. 2.5mm², removable
		Cable Entry	M16, Ø3Ø7mm cables, removable
		Sensing Element Position	external, along the immersion rod
	User Interface	None	
	Color and Materials	Housing Cover	PC, RAL9010 (Pure White)
		Housing Bottom	PC, RAL9010 (Pure White)
		Lock Screws	Zinc ZLO410, Fast Connectors 90°
İ		Cable Gland	PC, RAL9010 (Pure White)
ion		Gland Rubber Seal	White ENSOFT50, RAL9016 (Traffic White)
ficat		Immersion Rod	PE, Green
peci	Environmental Conditions	Operation Temperature	-25°C+70°C
Sensor Specification		Operation Humidity	100% r.h., with condensation
ens		Transport Temperature	-35°C+70°C
S		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
		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 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	Duct Mounting Set
	Shipping & Handling	Minimum Order	1 box with 1 piece
	opp.i.ig & Flatidillig		
		Package Material	Rigid Cardboards Packaging
≥	Order Notes	Order Code	See Product Range, Page 1, e.g. TDE2.AGa

Installation Notes



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

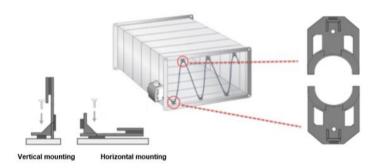
Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

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

Mounting Advice



Advices



Disposal Notes

The device is considered an electronic device for disposal in terms of

the EUROPEAN DIRECTIVE 2012/19/EU.

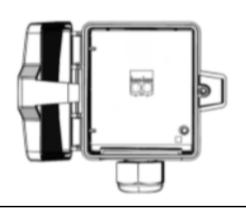


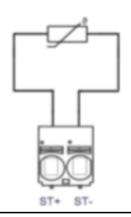
The device may not be disposed as domestic garbage.

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

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

Connection





Dimensional Drawing

