

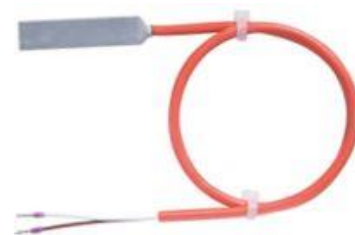
	TI355en	Product Information	
TUS2- Series (T)	Universal Surface Temperature Sensor with Passive Output		

The TUS2- Series (T) is designed to measure temperature on flat surfaces

Several cable length are available

Suitable for high temperatures

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
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Features	Sensor with passive output All Sensors with upgraded accuracy Different cable length are available High performance, silicon cables Professional and practical product design, withstands rough environmental conditions
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Product Range	Model	Sensor Output	Sensor Accuracy	Cable length	Sensor Shape	Sensor Material	Measuring Range	Cable Temperature Rating	IP Rating
	TUS2.AF	PT100	± 0.15K @ 0°C DIN EN 60751, class A	1m	10mmx35mmx6mm	Aluminum	-50...150°C	-50...250°C	IP65 to IEC60529
	TUS2.AG	PT1000							
	TUS2.AP	NTC10k	± 0.25K @ 25°C						
	TUS2.AQ	NTC10k Pre							
	TUS2.AR	NTC20k							
	TUS2.AK	NI1000	± 0.4K @ 0°C DIN EN 43760, class B						
	TUS2.AL	LG-NI1000							
	TUS2.BF	PT100	± 0.15K @ 0°C DIN EN 60751, class A	2m					
	TUS2.BG	PT1000							
	TUS2.BP	NTC10k	± 0.25K @ 25°C						
	TUS2.BQ	NTC10k Pre							
	TUS2.BR	NTC20k							
	TUS2.BK	NI1000	± 0.4K @ 0°C DIN EN 43760, class B						
	TUS2.BL	LG-NI1000							

All Information and technical data are subject to alteration

Sensor Specification	Sensor Specification	Measured	Temperature
		Sensor Characteristics	Passive
		Sensor Output (s)	NTC, PT, NI1000
		Measuring Current	<1mA
		Accuracy	
		PT100 / PT1000	± 0.15K @ 0°C DIN EN 60751, class A
		NTC10k / NTC10k Pre / NTC20k	± 0.25K @ 25°C
Technical Information	All Sensors with upgraded accuracy	NI1000 / LG-NI1000	± 0.4K @ 0°C DIN EN 43760, class B
		Measuring Range (s)	-40°C...+150°C
	Electrical Information	Voltage Rating	300V
		Dialectic Resistant	1750V/90sec.
		Core Wire Resistance	<95Ω/km @20°C
		Spark Test	3000V @ 0.15sec.
	Mechanical Information	Cable Jacket Diameter	ø 4.85mm ±0.15mm
		Cable Jacket Thickness	1.35mm ±0.5mm
		Core wire Diameter	0.51mm ² (AWG24)
		Core wire Thickness	0.115mm ±0.5mm
		Core wire Construction	Stranded, 7 / ø0.20mm ±0.005mm
		Temperature Rating	-50...250°C
		Deformation Strength	Shore3
		Tensile Strengths	>0.353kg/mm ²
		Sensing Element Position	Top of the sensor pocket
		Cable End	Cable end sleeves
	User Interface	n/a	
	Color and Materials	Sensor Pocket	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301
		Sensor Pocket Shield	Copper
		Cable Jacket Color	RAL3001 (Signal Red)
		Core wire Material	Silicon
	Environmental Conditions	Core wire Color	Brown / White
		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
	Norms and Directives	Storage Humidity	< 85% r.h., no condensation
		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
Miscellaneous	Accessories	Storage Mechanical Condition	IEC 60 721-3-1 to class2M2
		Accessory included in delivery	Cable strap 240mm
		Shipping & Handling	1 box with 10 pieces
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1, e.g. TUS2.AF

Advises	Security Advice  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  
	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. All Sensors with upgraded accuracy The device must be disposed through channels provided for this purpose. It is mandatory to complying with local currently applying laws and regulations.
Connection	
Dimensional Drawing	