



TI355en

Product Information**thermokon**[®]
asia pacific**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

Features

Sensor with passive output

Different cable length are available

High performance, silicon cables

Professional and practical product design, withstands rough environmental conditions

Product Range

Model	Sensor Output	Sensor Shape	Sensor Material	Cable length	Measuring Range	Cable Temperature Rating	IP Rating
TUS2.AF	PT100	10mmx35mmx6mm	Aluminum	1m	-50...150°C	-50...250°C	IP65 to IEC60529
TUS2.AG	PT1000						
TUS2.AP	NTC10k						
TUS2.AQ	NTC10k Pre						
TUS2.AR	NTC20k						
TUS2.AL	LG-NI1000						
TUS2.BF	PT100			2m			
TUS2.BG	PT1000						
TUS2.BP	NTC10k						
TUS2.BQ	NTC10k Pre						
TUS2.BR	NTC20k						
TUS2.BL	LG-NI1000						

All Information and technical data are subject to alteration

Sensor Specification	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Measuring Current Accuracy Type PT Type NTC Type LG-NI1000 Measuring Range (s)	Temperature Passive NTC, PT, NI1000 <1mA ± 0.3K @ 0°C DIN EN 60751, class B ± 0.5K @ 25°C ± 0.4K @ 0°C DIN EN 43760, class B -40°C...+150°C
Technical Information	Electrical Information	Voltage Rating Dialectic Resistant Core Wire Resistance Spark Test	300V 1750V/90sec. <95Ω/km @20°C 3000V @ 0.15sec.
Technical Information	Mechanical Information	Cable Jacket Diameter Cable Jacket Thickness Core wire Diameter Core wire Thickness Core wire Construction Temperature Rating Deformation Strength Tensile Strengths Sensing Element Position Cable End	∅ 4.85mm ±0.15mm 1.35mm ±0.5mm 0.51mm ² (AWG24) 0.115mm ±0.5mm Stranded, 7 / ∅0.20mm ±0.005mm -50...250°C Shore3 >0.353kg/mm ² Top of the sensor pocket Cable end sleeves
Technical Information	User Interface	n/a	
Technical Information	Color and Materials	Sensor Pocket Sensor Pocket Shield Cable Jacket Color Core wire Material Core wire Color	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301 Copper RAL3001 (Signal Red) Silicon Brown / White
Technical Information	Environmental Conditions	Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperature Storage Humidity	-25°C...+70°C 100% r.h., with condensation -35°C...+70°C < 90% r.h. -10°C...+70°C < 85% r.h., no condensation
Technical Information	Norms and Directives	IP- Rating Safety Class Product Standard 1 RoHS Compatibility Operation Climatic Condition Operation Mechanical Condition Transport to Climatic Condition Transport Mechanical Condition Storage Climatic Condition Storage Mechanical Condition	IP65 to IEC60529 III to EN 60 730 Automatic Electric. Controls for household and similar use RoHS 3, Directive 2015/863 IEC 60 721-3-3 IEC 60 721-3-2 to class2M2 IEC 60 721-3-2 IEC 60 721-3-2 to class2M2 IEC 60 721-3-1 IEC 60 721-3-1 to class2M2
Miscellaneous	Accessories	Accessory included in delivery	Cable strap 240mm
Miscellaneous	Shipping & Handling	Minimum Order Package Material	1 box with 10 pieces Rigid Cardboards Packaging
Miscellaneous	Order Notes	Order Code	See Product Range, Page 1, e.g. TUS2.AF

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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

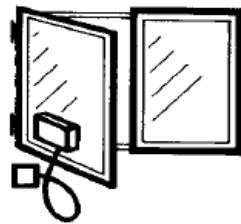
Local electrical supply authority regulation

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

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

Advises

Mounting Advices



Disposal Notes

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

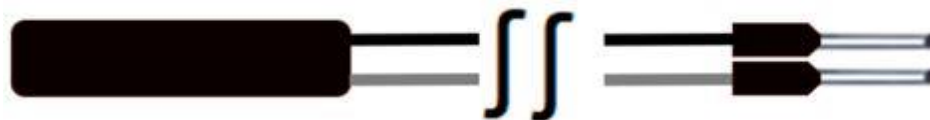


The device may not be disposed as domestic garbage.

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

