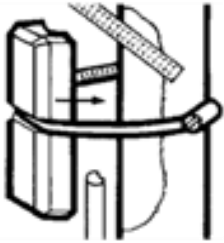
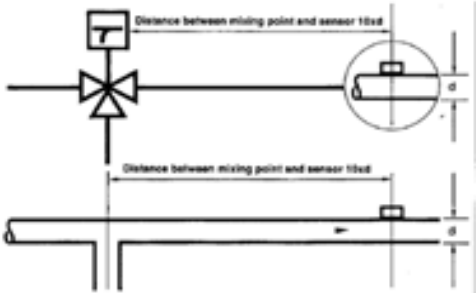


 TI650en		Technical Information																																																					
TUU2- Series (T)		Universal Temperature Sensor with Passive Output																																																					
The TUU2- Series (T) is designed to measure temperature for universal use The sensor can be used for air temperature or water temperature measurements The sensor is suitable in high temperature environments 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 All Sensors with upgraded accuracy Different pocket and cable length for all common HVAC applications High performance, silicon cables Professional and practical product design, withstands rough environmental conditions Easy to use, install and maintain																																																						
Product Range	<table><tr><th>Order Code</th><th>Sensor Output</th><th>Sensor Accuracy</th><th>Cable length</th><th>Measuring range</th><th>Cable rating</th><th>Pocket dimensions</th><th>IP Rating</th></tr><tr><td>TUU2.AF</td><td>PT100</td><td rowspan="2">± 0.15K @ 0°C DIN EN 60751, class A</td><td rowspan="7">1m</td><td rowspan="14">-50...150°C</td><td rowspan="14">-50°C...+200°C</td><td rowspan="14">SS304, Ø6x50mm</td><td rowspan="14">IP65</td></tr><tr><td>TUU2.AG</td><td>PT1000</td></tr><tr><td>TUU2.AP</td><td>NTC10k</td><td rowspan="3">± 0.25K @ 25°C</td></tr><tr><td>TUU2.AQ</td><td>NTC10k Pre</td></tr><tr><td>TUU2.AR</td><td>NTC20k</td></tr><tr><td>TUU2.AK</td><td>NI1000</td><td rowspan="2">± 0.4K @ 0°C DIN EN 43760, class B</td></tr><tr><td>TUU2.AL</td><td>LG-NI1000</td></tr><tr><td>TUU2.BF</td><td>PT100</td><td rowspan="2">± 0.15K @ 0°C DIN EN 60751, class A</td><td rowspan="8">2m</td></tr><tr><td>TUU2.BG</td><td>PT1000</td></tr><tr><td>TUU2.BP</td><td>NTC10k</td><td rowspan="3">± 0.25K @ 25°C</td></tr><tr><td>TUU2.BQ</td><td>NTC10k Pre</td></tr><tr><td>TUU2.BR</td><td>NTC20k</td></tr><tr><td>TUU2.BL</td><td>LG-NI1000</td><td rowspan="2">± 0.4K @ 0°C DIN EN 43760, class B</td></tr><tr><td>TUU2.BL</td><td>LG-NI1000</td></tr></table> other cable lengths or pocket dimensions available							Order Code	Sensor Output	Sensor Accuracy	Cable length	Measuring range	Cable rating	Pocket dimensions	IP Rating	TUU2.AF	PT100	± 0.15K @ 0°C DIN EN 60751, class A	1m	-50...150°C	-50°C...+200°C	SS304, Ø6x50mm	IP65	TUU2.AG	PT1000	TUU2.AP	NTC10k	± 0.25K @ 25°C	TUU2.AQ	NTC10k Pre	TUU2.AR	NTC20k	TUU2.AK	NI1000	± 0.4K @ 0°C DIN EN 43760, class B	TUU2.AL	LG-NI1000	TUU2.BF	PT100	± 0.15K @ 0°C DIN EN 60751, class A	2m	TUU2.BG	PT1000	TUU2.BP	NTC10k	± 0.25K @ 25°C	TUU2.BQ	NTC10k Pre	TUU2.BR	NTC20k	TUU2.BL	LG-NI1000	± 0.4K @ 0°C DIN EN 43760, class B	TUU2.BL	LG-NI1000
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Thermokon Asia Pacific All Information and technical data are subject to alteration TUU2- Series (T) V23.1 Page 1/3																																																							

Sensor Specification	Sensor Specification	Measured	Temperature
		Sensor Characteristics	Passive
		Sensor Output (s)	See Product Range, Page 1
		Measuring Current	<1mA
		Accuracy	
		PT100 / PT1000	± 0.15K @ 0°C DIN EN 60751, class A
		NTC10k / NTC10k Pre / NTC20k	± 0.25K @ 25°C
		NI1000 / LG-NI1000	± 0.4K @ 0°C DIN EN 43760, class B
		Measuring Range (s)	-50°C...+150°C
Technical Information	Electrical Information	n/a	
	Mechanical Information	Sensor Pocket Diameter	Ø6mm
		Sensor Pocket Length	50mm
		Cable Length	1m / 2m
		Cable Lead Diameter	Ø0.25mm
		Cable Diameter	4.6mm
		Cable Temperature Rating	-50°C...+200°C
		Sensing Element Pos	Top of the sensor pocket
	User Interface	None	
	Color and Materials	Sensor Pocket	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301
		Cable	Red Silicon, RAL 3001 (Signal Red)
	Environmental Conditions	Operation Temperature	-25°C...+100°C
		Operation Humidity	100% r.h., with condensation
		Transport Temperature	-35°C...+70°C
		Transport Humidity	< 90% r.h.
		Storage Temperature	
		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	
		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	None	
	Shipping & Handling	Minimum Order	1 box with 10 pieces
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1,e.g. TUU2.AF

All Information and technical data are subject to alteration

AdVICES	Security Advice  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
AdVICES	Mounting Advices  Caution  
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	