



DS151en

Data Sheet

TRW2-Series (T)

**Room Temperature Sensor
with Passive Output**

The TRW2-Series (T) is designed to measure temperatures in rooms or areas

The temperature sensor output is passive

Sleek, simple design, suitable for most rooms

Wide measuring range and high accuracy

**Use**

Compatible to all common HVAC DDC and Analog Controls systems with/without Building Automation System

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

Features

Sensor with passive output

Sensor with 2-, 3-, or 4-wire connection

Sensors with integrated strain relieve

All Sensors with outstanding accuracy

Easy to use, install and maintain free

Product Range

Order Codes	Sensor Output*	Sensor Accuracy	Connection	Housing	IP Rating
TRW2G.FG	PT1000	$\pm 0.15 \text{ }^\circ\text{C @ } 0 \text{ }^\circ\text{C}$ DIN EN 60751, class A	2/3/4-wire connection	White ABS Housing 86 mm x 86 mm x 22 mm	IP20 to IEC60529
TRW2G.FP	NTC10k	$\pm 0.25 \text{ }^\circ\text{C @ } 25 \text{ }^\circ\text{C}$			

*Other Sensors are available. Contact your Sales Manager for more information

Sensor Specification	Sensor Specification	Measured	Temperature
		Sensor Characteristics	Passive
		Sensor Output (s)	PT, NTC, NI
		Measuring Current	<1 mA
		Sensor Accuracy	
		PT	±0.15 °C @ 0 °C DIN EN 60751, class A
		NTC	±0.25 °C @ 25 °C
		Standard Measuring Range	0 °C to +50 °C
		Total Measuring Range	-50 °C to +150 °C
Technical Information	Electrical Information	Terminal Clamp	Screw terminal, max. 1.5 mm ²
	Mechanical Information	Cable Entry	~30 mm × 10 mm on the backside
		Sensing Element Position	Inside the housing, top of the housing
	Colour and Materials	Housing Cover	ABS, white
		Housing Bottom	ABS, white
		Flammability Standard	UL 94 class HB; IEC 60707; ISO 9770
	Environmental Conditions	Operation Temperature	0 °C to +50 °C
		Operation Humidity	<85 % RH, no condensation
		Transport Temperature	-35 °C to +70 °C
		Transport Humidity	<90 % RH
		Storage Temperature	-10 °C to +70 °C
		Storage Humidity	<85 % RH, no condensation
	Norms and Directives	IP-Rating	IP20 in accordance with IEC60529
		REACH Regulation	Regulation (EC) No. 1907/2006
		Product Safety	Safety class III, in accordance with EN IEC 60730-1
		Product Standard 1	Automatic electrical controls for household and similar use in accordance with EN IEC 60730-1:2022
		CE Compliance	IEC/EN60730-1
		RoHS Compliance, in accordance with	Directive 2011/65/EU, as amended by (EU) 2015/863
		Operation Climatic Conditions	IEC 60 721-3-3
		Operation Mechanical Conditions	IEC 60 721-3-2 to class2M2
		Transport Climatic Conditions	IEC 60 721-3-2
		Transport Mechanical Conditions	IEC 60 721-3-2 to class2M2
		Storage Climatic Conditions	IEC 60 721-3-1
	Storage Mechanical Conditions	IEC 60 721-3-1 to class2M2	
Miscellaneous	Accessories	N/A	
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Package Material	Rigid cardboard packaging
	Order Notes	Order Code	See product range, page 1, e.g. TRW2G.FG

Installation Notes

Observe the following general regulation for engineering and installation:



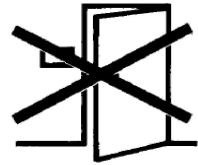
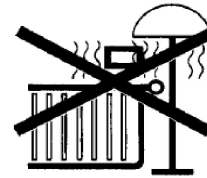
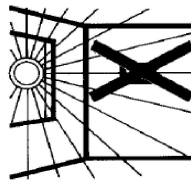
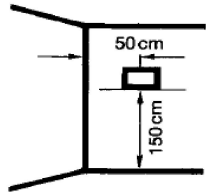
All relevant national and local electrical installation codes

Other country-specific regulations

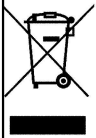
Comply with all local safety regulations, schematics, cable listings, dispositions, specifications, and arrangements from the engineering office in charge

Third-party specifications, e.g., general contractors' or constructors' notes

Mounting Advices



Disposal Notes



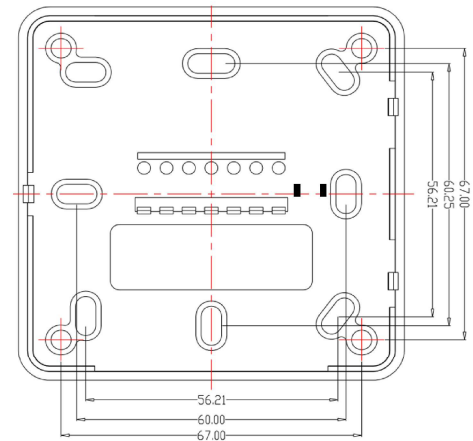
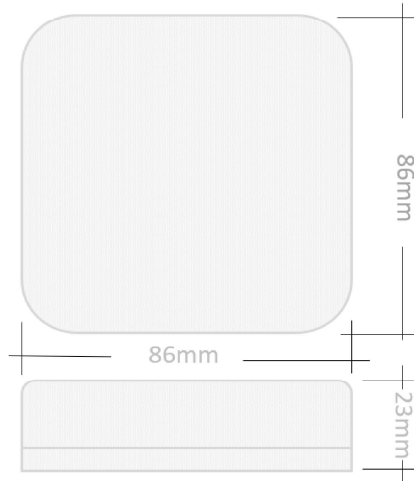
The device is considered an electronic device for disposal in terms of the European Directive 2012/19/EU

The device may not be disposed as domestic garbage

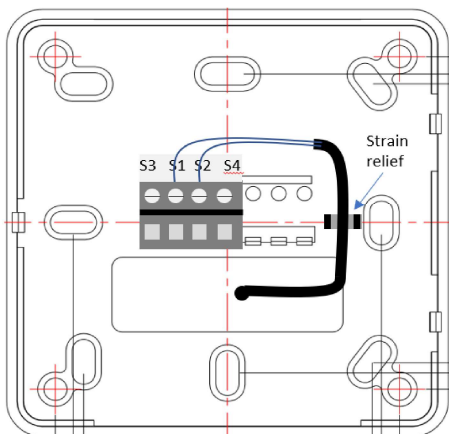
The device must be disposed through channels provided for this purpose

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

Dimensional Drawing



Connections / Opening



2-wire connection
S1 + S2

3-wire connection
S1 + S2 + S3

4-wire connection
S1 + S2 + S3 + S4

