

Sensors

Temperature sensors



TFR



TFW



TFT



TFA



TFK

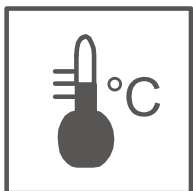
Different ZIEHL-ABEGG PTC (Positive Temperature Coefficient) thermistors are available. The ZIEHL-ABEGG control unit detects the ambient temperature at the measuring point by the change in resistance in the sensor (KTY81-210). Resistance at 25 °C = 2 kΩ (tolerance 1 %). The polarity can be ignored when connecting. The temperature measuring range depends on the properties of resolution or programming of the allocated ZIEHL-ABEGG control unit.

The following types of passive thermistors are available:

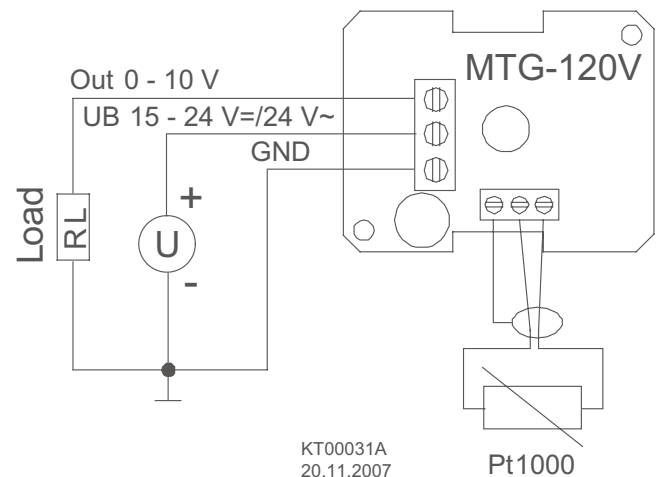
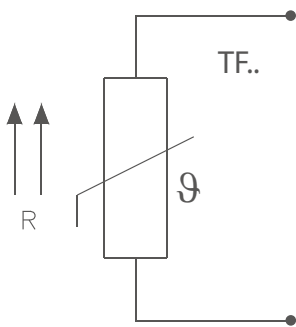
- Room sensor TFR with plastic box for outdoor or industrial use
- Living room sensor TFW with plastic housing
- Immersed sensor TFT for installation in on-site immersed sleeve
- Plant sensor TFA for pipework
- Duct sensor TFK with housing and sensor rod for air ducts

Alternatively, the active MTG-120V thermistor can be supplied. This consists of a connection housing to which a 2 m long cable with sensor element is firmly connected.

Application possibilities as contact sensor or immersed sensor, e.g. in oil cooler. The MTG... has the measuring range -10 to 120 °C and generates 0 – 10 V proportionally over the measuring range.



Connections



Thermistors „passive“						
Type	Article no.	Protection class	Line/connection	Measuring range	Weight	Dimensions (W x H x D)
					kg	mm
TFR	00089846	IP54		Temp. -20... +60 °C	0.05	75 x 75 x 37
TFR-E	00153406			Temp. -20... +60 °C	0.00	
TFW	00154798	IP20		Temp. -35... +70 °C	0.04	84 x 84 x 23.5
TFT	00154797	IP43	Lead length: approx. 1.9m	Temp. -20...+105 °C	0.07	d7 x 50
TFT (XL)	384027	IP43	Lead length: approx. 4m	Temp. -20...+105 °C	0.15	
TFA	00153407	IP67	Lead length: approx. 2m	Temp. -20... +85 °C	0.03	d6 x 50
TFK	384022	IP65		Temp. -50...+120 °C	0.10	

Thermistors „active“ 15...24VDC/24VAC						
Type	Article no.	Protection class	Line/connection	Measuring range	Weight	Output
					kg	
MTG-120V	384031	IP65 / IP67	Length of sensor cable: approx. 2m	-10...+120 °C	0.15	0...10 V, max. 2 mA

Information

Motor protection

Fcontrol, lcontrol

UNicon

Acontrol, Ucontrol, Dcontrol

Transformer

System components

Appendix