

**PTC-Thermistor Sensors (Positive Temperature Coefficient)**

**Colour Coding**

Connecting lead wires / Interconnection lead wires

*(italic written data does not acc. to DIN 44081 / DIN 44082)*

The interconnection lead wires on multiple unit versions are yellow as standard.

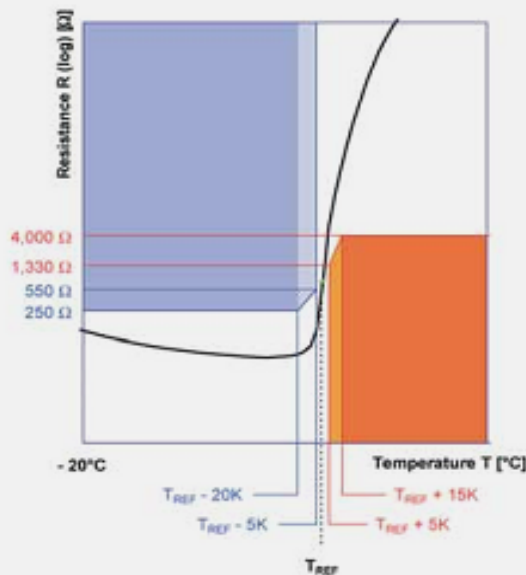
The lead wire colours may vary. For other colour combinations, please inquire.

60	70	80	90	100	105	110	115	120	125	130
white	white	white	green	red	blue	brown	blue	grey	red	blue
grey	brown	white	green	red	grey	brown	green	grey	green	blue
135	140	145	150	155	160	165	170	180	190	
red	white	white	black	blue	blue	blue	white	white	black	
brown	blue	black	black	black	red	brown	green	red	brown	

**Temperature Resistance Diagramm**

**Temperature-Resistance-Diagramm (RT-Diagramm)**

acc. to DIN 44081 (single), acc. to 44082 (triplex)



**GENERAL CHARACTERISTICS**

$T_{REF}$  = Nominal Response Temperature

$T_{REF}$  = 90°C up to 160°C in steps of 10K i.e. 5K

Temperature T [°C]	Resistance R acc. to DIN 44081 (value per Sensor)	Measuring-Voltage [DC]
-20°C up to $T_{REF} - 20K$	20 Ω up to 250 Ω -Standard- ≤ 100 Ω -on request-	≤ 2.5 V-
$T_{REF} - 5K$	≤ 550 Ω	≤ 2.5 V-
$T_{REF} + 5K$	≥ 1,330 Ω	≤ 2.5 V-
$T_{REF} + 15K$	≥ 4,000 Ω	≤ 7.5 V-pulsed

max. allowable Supply-voltage :

$U_{max} = 30 V-$

max. recommended Sensor-voltage :

$U_{mess} = 7.5 V-$

High voltage insulation :

$U_{is} = 2.5 kV$

\* R-T-parameters for other  $T_{REF}$  (nominal response temperatures) - on request -

$$T_{NF} \Leftrightarrow T_{MAT} \Leftrightarrow T_{REF}$$

Ref. Thermik Geraetebau GmbH.