

SA-NTC_{xyy}_5V-000

NTC temperature sensors



M10 brass

SA-NTCM10_5V-000



M8 plastic

SA-NTCM08_5V-000



M6 stainless steel

SA-NTCM06_5V-000



D6 hole

SA-NTCD06_5V-000

Key Features

- NTC Temperature Sensor

Usage:

- Water / Oil temperature
- Engine housing temperature
- Gearbox temperature
- Airbox temperature (different adjustment of the sensor $\pm 0.1\%$ relative)

Options:

- Connector and cable length can be modified on customer request

Technical specifications

Electrical characteristics		Mechanical characteristics	
Measurement range	°C	0 to 150	Weight (D6, D8, M6 or M8)
Accuracy (40°C-80°C)	°C	± 0.5	g
Special use e.g. airbox	°C	± 0.1	Weight (M10)
Mounting screw		M6/ M8/ M10	g
			20
			Cable
			Type
			Raychem
			Wire cross section (D6)
			mm ²
			4x 0.08
			Wire cross section (M...)
			mm ²
			4x0.14
			Connector type
			Binder 719, 5PM
			Environmental data
			Protection class
			IP67
			Ambient operating range
	°C	-25 to +85	
			Humidity
	%	5 to 95	
			Ordering information
			SA-NTC _{xyy} _5V-000

Dimensions



M10 brass



M8 plastic



M6 stainless steel



D6 hole

Calibration

Temperature	Multiplicator	Offset
Value [°C]	= 0.1 * digits	- 62.4

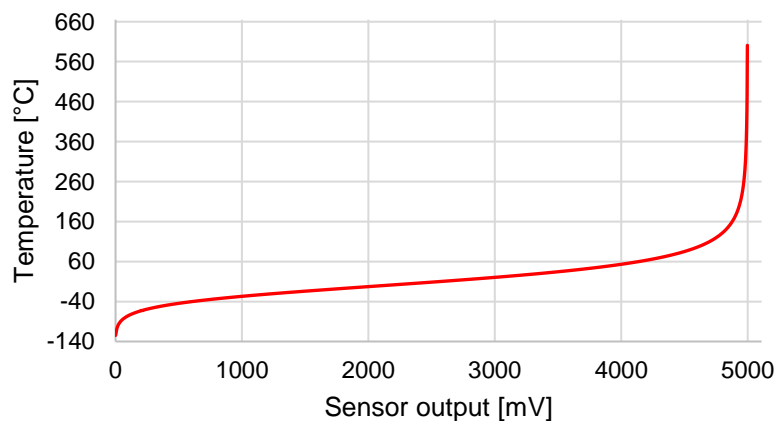


Non-linear Sensor

Use this formula in combination with a table to calculate the physical values. For this **non-linear** sensor are different table files available.

Table	Description
NTC_L6.tbl	2D Standard Connector

SA-NTC_{xyy}-xxx



Tables

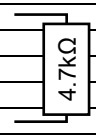
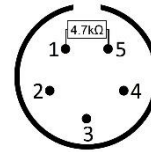
All table files are installed with the 2D Software, they are located in:
C:\ProgramData\Race20xx\System\Tables

Connector layout

Connector type

Binder 719 5PM (default)

Pin	Name	Description	Color
1	AGND	Analog ground	black
2	+5V	Vcc	green
3	n.c.	Not connected	-
4	n.c.	Not connected	-
5	Signal	Analog signal	white

front view
(with resistor)



Factory calibration

Do not modify the resistor inside the connector.