

Technical Details	
Model:	SmartMaxx-Sensor-PT1000-HT
Wire Length (IN)	78.74
Sensor Length (IN)	1.1
Diameter (IN)	0.21
Resistance (0°C) (Ω)	1000
Temperature Accuracy	DIN EN60751 (IEC 751)
Temperature Range (°C)	-60 to 200
Sensor Reaction Time	< 1 s
Connection Type	Two Wires
Resistor Material	Platinum
Cable Type	High-flexible silicone, grey



The controller (SKU SMARTMAXX-PRO-L4) operates the temperature sensors HT PT-1000 which high temperature accuracy from 0.5°C to 1°C depending from measured rate. It ensures an optimal control of all system functions. A platinum resistor is built into the temperature sensor. Temperature changes are reflected by electrical resistance changes. Measuring the resistance gives an analogue expression for the actual temperature of measured area.

Temperature resistance table for HT PT-1000

Temp (°C)	-20	-10	0	10	20	30	40	50	60	70	80	90	100
Resistance (Ω)	922	961	1000	1039	1077	1116	1155	1194	1232	1270	1308	1347	1385

If it desired, the sensor cables can be extended up to 30 meters (98 ft) using a cable which cross-section has at least 0.75 mm². Be careful during this activity and ensure that there is no contact resistance – improper measuring rate.

Remember to put the sensor in precisely in the designed area, it is an essential to get a right measurement. Use only the PT-1000 sensors suitable for specific area of application and appropriate allowable temperature range.