

# SOWPARNIKA

**THERMISTORS & HYBRIDS PVT. LTD.**



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[www.sowparnikathermistors.com](http://www.sowparnikathermistors.com)

Sowparnika Thermistors and Hybrids Pvt. Ltd. is a Kerala based enterprise, actively engaged in the manufacturing and supplying of Thermistors and Thermistor products. The array of products that we offer includes Electronic NTC Thermistor, NTC Thermistor Products, Inrush Current Limiters, Temperature Compensators, AC Sensors, Surge Current Protection Type NTC Thermistor, Automobile Sensors, NTC Thermistor Sensor, Surface Temperature Sensor and Bimetal Thermostat.

Today, we have carved a niche as one of the major NTC Thermistor Manufacturers and Suppliers in India. Our company has been showing considerable progress, since our establishment in 2007. We are flourishing, under the guidance of our worthy CEO, Mr. M. M. Jayakumar. We started our enterprise with a team of highly qualified engineers who have experience in the line of NTC Thermistor manufacturing for over 20 years and within this small span of 2 years, we have carved a niche as one of the leading suppliers of Thermistors to major companies in the Automobile, UPS/Inverter and medical equipment industry.

## QUALITY

Our Company is highly centralized towards delivering optimum quality products to the customers. We manufacture Thermistor and Thermistor products from supreme quality raw materials in conformance with the international norms & standards that guarantee our authenticity and reliability. Our products are duly tested at every stage of production and packaging.

## INFRASTRUCTURE AND TEAM

We have a highly organized infrastructural base that assists is in the development of optimum quality products. In addition to this, we possess an experienced team of workers, who check the products from the raw materials to the stage of final production, thereby delivering flawless products.

## CLIENTELE

We have garnered a huge number of customers all over India as we aspire to deliver matchless quality products to our customers. Additionally, we have also received various positive responses from our customers that have further assisted us in enhancing our customer base all over the country.



**Name of CEO**  
Mr. M.M. Jayakumar



**Number of Employees**  
45



**Year of Establishment**  
2007



**Market Covered**  
Domestic and International



**Nature of Business**  
Manufacturer & Supplier



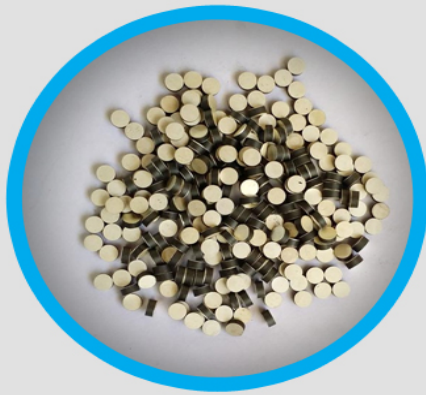
**Annual Sales**  
Rs 60million

## SMD NTC Thermistor

<b>Application</b>	:	Domestic, Industrial
<b>Color</b>	:	Brown
<b>Features</b>	:	Auto Controller, Dipped In Epoxy Resin
<b>Humidity</b>	:	60%
<b>Capacitor Rating</b>	:	100Kvarm, etc
<b>Benefit</b>	:	Long functional life



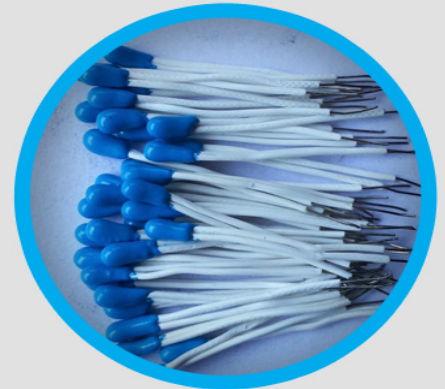
## Bare Disc NTC Thermistors



<b>Application</b>	:	Domestic
<b>Voltage</b>	:	110V, 220V, etc
<b>Frequency</b>	:	50Hz, etc
<b>Features</b>	:	Auto Controller, Dipped In Epoxy Resin
<b>Humidity</b>	:	60%
<b>Capacitor Rating</b>	:	100Kvarm

## Bead Type NTC Thermistor

<b>Application</b>	:	Domestic
<b>Voltage</b>	:	110V, etc
<b>Frequency</b>	:	50Hz, etc
<b>Driven Type</b>	:	Battery
<b>Features</b>	:	Auto Controller
<b>Humidity</b>	:	60%, etc



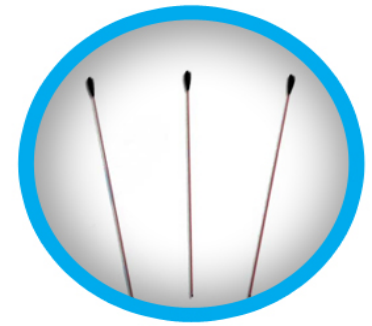
## Compact High Precision Bead NTC Thermistor Temperature Sensor



<b>Brand Name</b>	:	Sowparnika
<b>Usage</b>	:	Temperature Sensing
<b>Theory</b>	:	Resistance Sensor
<b>Category</b>	:	Epoxy Coated NTC Chip Thermistor
<b>output</b>	:	Analog/ Digital

## Electro Thermo Series Bead Type NTC Thermistor

Brand Name	:	Sowparnika
Usage	:	Temperature Sensing
Operating Temperature	:	- 55 °C - +250 °C
Theory	:	Resistance Sensor
output	:	Analog/ Digital



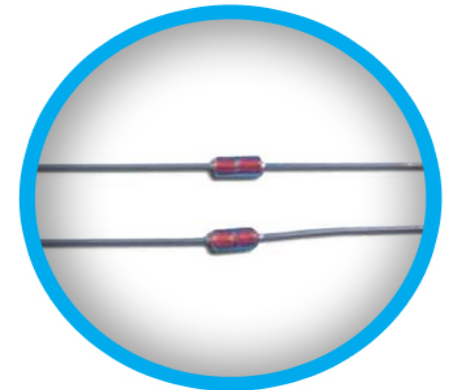
## Film Type NTC Thermistor Sensor

Type	:	Film Type NTC Thermistor
Brand Name	:	Sowparnika
Usage	:	Temperature Sensing
Theory	:	Resistance Sensor



## Glass Bead NTC Thermistor

Application	:	Domestic, Industrial
Voltage	:	110V
Frequency	:	50Hz
Features	:	Auto Controller
Humidity	:	60%, etc
Capacitor Rating	:	100Kvarm, etc



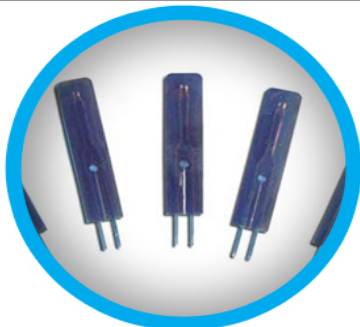
## Powder Type NTC Thermistor

Application	:	Industrial, Machinery
Voltage	:	110V
Frequency	:	50Hz
Driven Type	:	Electric
Features	:	Auto Controller, Dipped In Epoxy Resin
Humidity	:	60%, etc
Capacitor Rating	:	100Kvarm, etc



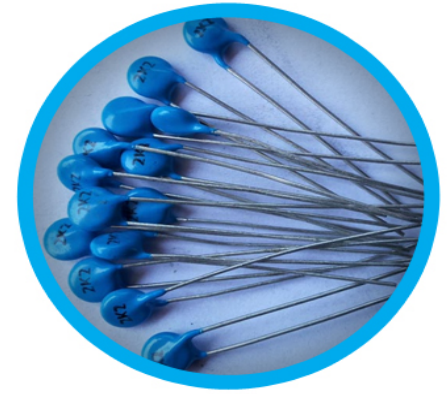
## Surge Current Protection Type NTC Thermistor

Brand Name	:	Sowparnika
Usage	:	Inrush Current limiting
Theory	:	Resistance Sensor



## Temperature Compensation Type NTC Thermistor

Application	:	Industrial
Voltage	:	110V
Frequency	:	50Hz, etc
Features	:	Auto Controller, Stable Performance
Humidity	:	60%, etc
Capacitor Rating	:	100Kvarm, etc



## Temperature Sensor Type NTC Thermistor

Application	:	Industrial
Voltage	:	110V
Operating Temperature	:	-25 +85deg C, etc
Frequency	:	50Hz, etc
Features	:	Controller
Humidity	:	60%, 85%90%, etc



## NTC Thermistor Sensor For Coil Winding Protection in Electric Motors And Transformers

Application	:	Industrial
Color	:	Yellow
Voltage	:	110V, 440V, etc
Operating Temperature	:	-25 +85deg C, etc
Frequency	:	50Hz, etc
Driven Type	:	Electric



## NTC Thermistor Products

### Thermistor Sensor

**Test Method :** Using Bridge circuit 6.3V R1 & R2 83 Ω with Thermistor immersed in hot oil bath with stirring arrangement.

**R Vs T Curve :**

Temperature Å° C	Resistance Ω?
40	960+/-60
60	430+/-20
80	211+/-10
100	111+/- 5
125	55+/- 3

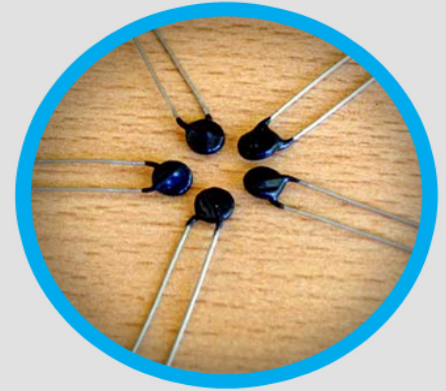
**APPLICATION :**

Automobile for Engine Temperature sensing



## Temperature Compensators

<b>Speciality</b>	:	Rust resistance
<b>Usage</b>	:	Industrial
<b>Advantage</b>	:	Easy to Operate
<b>Efficiency</b>	:	66.00%
<b>Performance</b>	:	Optimum
<b>Features</b>	:	Long functional life



## Surge protection Thermistor

<b>Type</b>	:	Inrush Current Limiting Temperature Sensor
<b>Brand Name</b>	:	Sowparnika
<b>Material</b>	:	Ceramic metal oxides
<b>Application</b>	:	Inrush Current limiting



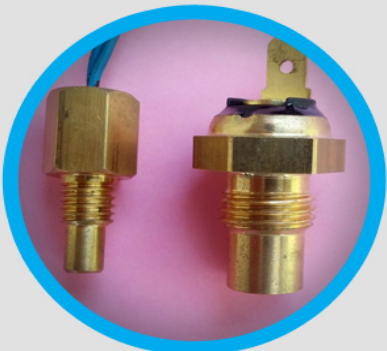
## AC Sensors

<b>Strength</b>	:	Optimum
<b>Performance</b>	:	Highly effective
<b>Features</b>	:	Long functional life
<b>Advantage</b>	:	Easy to Operate
<b>Usage</b>	:	Industrial
<b>Speciality</b>	:	Rust resistance



## Automobile Battery Temperature Sensors

<b>Type</b>	:	Rubber Grommet/ Customized Type Encapsulated Automobile Battery Temperature Sensor
<b>Brand Name</b>	:	Sowparnika
<b>Application</b>	:	Automobile Battery Temperature Sensing



## Surface Temperature Sensor

<b>Brand Name</b>	:	Sowparnika
<b>Usage</b>	:	Temperature Sensor
<b>Operating Temperature</b>	:	- 40°C -140 °C
<b>Theory</b>	:	Resistance Sensor
<b>Rated Power</b>	:	9 - 60 MAmp



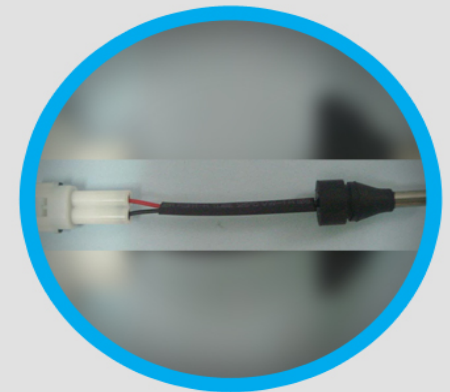
## Bimetal Thermostat



<b>Material</b>	:	Plastic, etc
<b>Use</b>	:	Clinical Use, Monitor Temperature
<b>Features</b>	:	Easy To Use
<b>Benefit</b>	:	Durable
<b>Performance</b>	:	Optimum
<b>Strength</b>	:	Long functional life

## Ambient Air Temperature sensor - HVAC

<b>Application</b>	:	Temperature Scaling
<b>Color</b>	:	Black
<b>Driven Type</b>	:	Battery
<b>Features</b>	:	Reservoirs Hoppers, Safety Interlocks
<b>Ambient temperature</b>	:	0-100deg C, etc
<b>Automation Grade</b>	:	Manual
<b>Indication Rating</b>	:	Flow Rate



## Temperature Sensor Probe



<b>Application</b>	:	Temperature Scaling
<b>Color</b>	:	Black
<b>Frequency</b>	:	50Hz
<b>Driven Type</b>	:	Electric
<b>Features</b>	:	Non Conductive Liquid, Reservoirs Hoppers
<b>Warranty</b>	:	1yrs
<b>Automation Grade</b>	:	Manual
<b>Indication Rating</b>	:	Total Flow

## Mr. M.M Jayakumar / Sooraj Jayakumar



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