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DTTTEK

Product Catalog



Precision in Every Degree, Excellence in Every Sensor.

Company Introduction

DTTTEK, founded in 2018 in Shenzhen, is a professional supplier of sensitive components, specializing in NTC thermistors, temperature sensors, and thermocouples. With a 3,000 m² facility in Dongguan, we integrate R&D, production, and testing capabilities for temperature sensing solutions.

Our products are known for their consistency and stability, serving industries such as industrial automation, smart agriculture, home appliances, and consumer electronics.

With advanced equipment, a strong R&D team, and a focus on quality, we provide custom solutions, fast delivery, and excellent service, earning recognition from both domestic and international clients.

Leading Core Technology



Op. Temp: -253°C to +1300°C
Precision: $\pm 0.001^\circ\text{C}$
Response time: 6.7ms
Size: $\leq 0.5\text{mm}$

R&D and Production



3,000 m² facility
NTC chip and sensor production lines
Reliability testing lab

Advanced Equipment



High-temperature sintering furnaces
Automated testing systems
Ensures quality and efficiency

Custom Solutions



High-precision sensors for industrial, agricultural, and renewable energy sectors

Superior Quality



Meets international standards for consistency, stability, and reliability

Efficient Delivery

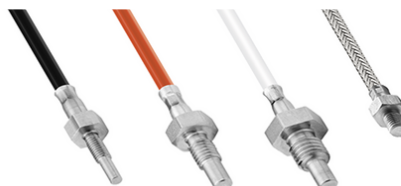


High production capacity
Fast, responsive service



- HIGH PRECISION
- SMALL SIZE
- STRONG STABILITY
- HIGH TEMPERATURE RESISTANCE
- CORROSION-RESISTANT

NTC TEMPERATURE SENSOR



TEMPERATURE SENSOR WITH THREADED TURNING PARTS



Encapsulation: Metal cylindrical case

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -30°C~105°C

TEMPERATURE SENSOR WITH THREADED TURNING PARTS



Encapsulation: Threaded turning housing

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -40°C~380°C

METAL CYLINDRICAL SHELL TEMPERATURE SENSOR



Encapsulation: Metal cylindrical case

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -30°C~105°C

PROFILED CASE TEMPERATURE SENSOR



Encapsulation: Special-shaped housing

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -40°C~200°C

METAL CYLINDRICAL SHELL TEMPERATURE SENSOR



Encapsulation: Metal cylindrical case

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -30°C~105°C

METAL CYLINDRICAL SHELL TEMPERATURE SENSOR

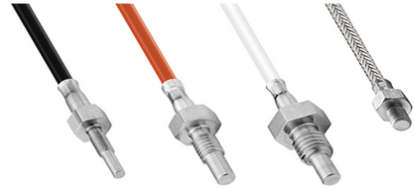


Encapsulation: Metal cylindrical case

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -30°C~105°C

NTC TEMPERATURE SENSOR



TEMPERATURE SENSORS FOR INJECTION MOLDED PARTS

Encapsulation: Injection molded housing

R25=10K Ω $\pm$ 1%
B25/50=3950K $\pm$ 1%
R25=10K Ω $\pm$ 1%
B25/85=3435K $\pm$ 1%

Accuracy: 1%~5%
Op. Temp.: -40°C~125°C

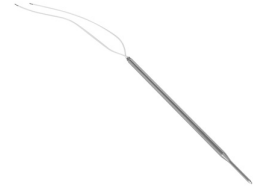


FOLDING KITCHEN THERMOMETER OVEN TEMPERATURE PROBE

Encapsulation: single-ended glass-sealed NTC

R25=100K $\pm$ 1%
B25/50=3950K $\pm$ 1%

Accuracy: $\pm$ 1%
Op. Temp.: -50°C~300 °C
WT: -50°C~200 °C



TEMPERATURE SENSORS FOR INJECTION MOLDED PARTS

Encapsulation: single-ended glass-sealed NTC

R25=100K $\pm$ 1%
B25/50=3950K $\pm$ 1%

Accuracy: $\pm$ 1%
Op. Temp.: -50°C~260 °C
Temp. Meas.: -50°C~300°C



ROLLER GROOVE WATERPROOF SEAL BARBECUE PROBE

Encapsulation: single-ended glass-sealed NTC

R25=100K $\pm$ 1%
B25/50=3950K $\pm$ 1%

Accuracy: $\pm$ 1%
Op. Temp.: -50 °C~260 °C
Temp. Meas.: -50°C~300°C



FOOD GRADE STAINLESS STEEL REDUCER PROBE TEMPERATURE SENSOR

Package/case: single-ended glass-sealed NTC

R25=100K $\pm$ 1%
B25/50=3950K $\pm$ 1%

Accuracy: $\pm$ 1%
Op. Temp.: -50°C~260 °C
Temp. Meas.: -50°C~300°C



BARBECUE THERMOMETER TEMPERATURE PROBE

Encapsulation: single-ended glass-sealed NTC

R25=50K Ω $\pm$ 1%
R25/50=3950K Ω $\pm$ 1%

Accuracy: $\pm$ 1%
Op. Temp.: -50°C~260 °C
WT: -50°C~200 °C



NTC FOOD GRADE BARBECUE TEMPERATURE SENSOR

Package/case: single-ended glass-sealed NTC

R25=100K $\pm$ 1%
B25/50=3950K $\pm$ 1%

Accuracy: $\pm$ 1%
Op. Temp.: -50°C~260°C
Temp. Meas.: -50°C~300°C



304 STAINLESS STEEL METAL WIRE TEMPERATURE SENSOR

Encapsulation: single-ended glass-sealed NTC

Accuracy: $\pm$ 1%
Op. Temp.: -50°C~300 °C
WT: -50°C~260 °C



THERMOCOUPLE PROBE



FOOD GRADE STAINLESS STEEL TYPE K/T THERMOCOUPLE

Type: K/T Type thermocouple

Encapsulation: Housing with threaded turning parts
Op. Temp.: -10 °C~500 °C



ECO-FRIENDLY FEP HIGH-PRECISION TYPE K THERMOCOUPLE

Type: K Type thermocouple

Encapsulation: Hot melt welding + plug connector
Op. Temp.: -60 °C~200 °C



ENVIRONMENTALLY FRIENDLY INJECTION MOLDED K-TYPE THERMOCOUPLE PROBE

Encapsulation: ϕ 5.0 probe with flange

Accuracy: $\pm 1.5\%$
Op. Temp.: -50 °C~500 °C
WT: -50 °C~500 °C



HIGH PRECISION K- TYPE THERMOCOUPLE PROBE WITH FLANGE

Sensor chip: K-type, Nichrome (KP+), Nickel-silicon (KN-)

Accuracy: $\pm 1.5\%$
Op. Temp.: -50 °C~500 °C
WT: -50 °C~500 °C



K-TYPE THERMOCOUPLE TEMPERATURE SENSOR WITH FLANGE PROBE

Encapsulation: ϕ 5.0 probe with flange

Sensor chip: K-type, Nichrome (KP+), Nickel-silicon (KN-)
Accuracy: $\pm 1.5\%$
Op. Temp.: -50 °C~450 °C
WT: -50 °C~450 °C



MOVABLE SCREW HEAD TEMPERATURE SENSOR

Encapsulation: M8 screw head

Sensor chip: K-type, Nichrome (KP+), Nickel-silicon (KN-)
Accuracy: $\pm 1.5\%$
Op. Temp.: -50 °C~500 °C
WT: -50 °C~500 °C



K-TYPE THERMOCOUPLE M8 SCREW HEAD TEMPERATURE SENSOR

Encapsulation: ϕ 5 probe + M8 screw head

Sensor chip: K-type, Nichrome (KP+), Nickel-silicon (KN-)
Accuracy: $\pm 1.5\%$
Op. Temp.: -50 °C~500 °C
WT: -50 °C~500 °C



PIZZA OVEN M10 SCREW HEAD TEMPERATURE SENSOR

Encapsulation: M10 screw head

Sensor chip: K-type, Nichrome (KP+), Nickel-silicon (KN-)
Accuracy: $\pm 1.5\%$
Op. Temp.: -50 °C~500 °C
WT: -50 °C~500 °C



RTD TEMPERATURE PROBE



STAINLESS STEEL HANDLE PT1000 BARBECUE PROBE

Encapsulation: Platinum Thin Film Resistors
RO=1000Ω ± 1.172Ω

Accuracy: ±0.3°C(R0)
Op. Temp.: -50 °C~380 °C
WT: -50~500 °C



MAGNETIC STIRRER TEMPERATURE PROBE

Encapsulation: Platinum Thin Film Resistors
RO=1000Ω ± 1.172Ω

Accuracy: ±0.3°C(R0)
Op. Temp.: -50~380 °C
WT: -50 °C~500 °C



PELLET STOVE PT1000 PLATINUM THERMAL SENSOR

Encapsulation: Platinum Thin Film Resistors

Accuracy:
 $\pm 2(0.3 + 0.005|T|)|T|$
Op. Temp.: -70 °C~380 °C
WT: -70 °C~200 °C



STABLE PERFORMANCE PELLET STOVE PT1000 PLATINUM THERMAL SENSOR

Encapsulation: Platinum Thin Film Resistors

Accuracy: $\pm 2(0.3 + 0.005|T|)|T|$
Op. Temp.: -50 °C~200 °C
WT: -50 °C~200 °C



SPRING WIRE PT1000 TEMPERATURE SENSOR

Encapsulation: Platinum Thin Film Resistors

Accuracy: ±0.3°C(R0)
Op. Temp.: -50~200 °C
WT: -50~500 °C



PT1000 BARBECUE TEMPERATURE SENSOR

Encapsulation: Platinum Thin Film Resistors

Accuracy: ±1%
Op. Temp.: -50 °C~300 °C
WT: -50 °C~500 °C



INDUSTRIAL GRADE PT1000 PLATINUM THERMAL SENSOR

Encapsulation: Platinum Thin Film Resistors

Accuracy:
 $\pm 2(0.3 + 0.005|T|)|T|$
Op. Temp.: -70 °C~500 °C
WT: -50~200 °C



PT100 PT1000 PLATINUM THERMAL SENSOR FOR FOOD FREEZE DRYER

Encapsulation: Platinum Thin Film Resistors

Accuracy: $\pm 2(0.3 + 0.005|T|)|T|$
Op. Temp.: -70 °C~500 °C
WT: -50 °C~200 °C



NTC THERMISTOR



THIN FILM TEMPERATURE SENSORS

Encapsulation: Special film material
Thermal time constant: $\leq 5S$ in still air
Op. Temp.: $-40^{\circ}C \sim 125^{\circ}C$
Max rated power: 50mW



NTC EPOXY ENAMELED WIRE COMPONENTS

Encapsulation: Single ended glass seal

$R_{25}=10k\Omega \pm 1\%$
 $B_{25/85}=3435k \pm 1\%$
Op. Temp.: $-30^{\circ}C \sim 125^{\circ}C$



NTC EPOXY SMALL LEATHER WIRE COMPONENTS

Encapsulation: Epoxy resin

Op. Temp.: $-40^{\circ}C \sim 125^{\circ}C$
Thermal time constant: 12 seconds max. (in oil)
Dissipation constant: $3 mW/^{\circ}C$
Max Permissible Power: 10 mW



NTC EPOXY CP ELECTRONIC WIRE

Encapsulation: Epoxy resin

Storage temp.: $20^{\circ}C \pm 15^{\circ}C$
Op. Temp.: $-40^{\circ}C \sim 105^{\circ}C$
Relative humidity: $\leq 75\%RH$
Period of Storage: 6 months



PTC LINEAR THERMISTOR

Encapsulation: Single ended glass seal

Accuracy: $\pm 1\%$, $\pm 2\%$, $\pm 3\%$, $\pm 5\%$
Thermal time constant (in still air): $\leq 10Sec$
Thermal dissipation coefficient (in still air): $2.5 \sim 5mW/^{\circ}C$
Op. Temp.: $-50^{\circ}C \sim 200^{\circ}C$



GLASS ENCAPSULATED NTC THERMISTOR

Encapsulation: Single ended glass seal

Length: 400m
Res. Value at: $0^{\circ}C / 25^{\circ}C$
 $102 \times 1000 \Omega$
WT: $-50^{\circ}C \sim 300^{\circ}C$



NTC EPOXY TEFLON WIRE COMPONENTS

Encapsulation: Epoxy resin

$R_{25}=100k\Omega \pm 1\%$
 $B_{25/50}=3950k \pm 1\%$

Op. Temp.: $-40^{\circ}C \sim 300^{\circ}C$
Thermal Time Constant: $\tau \leq 10S$
Dissipation Factor: $\delta \geq 5mW/^{\circ}C$



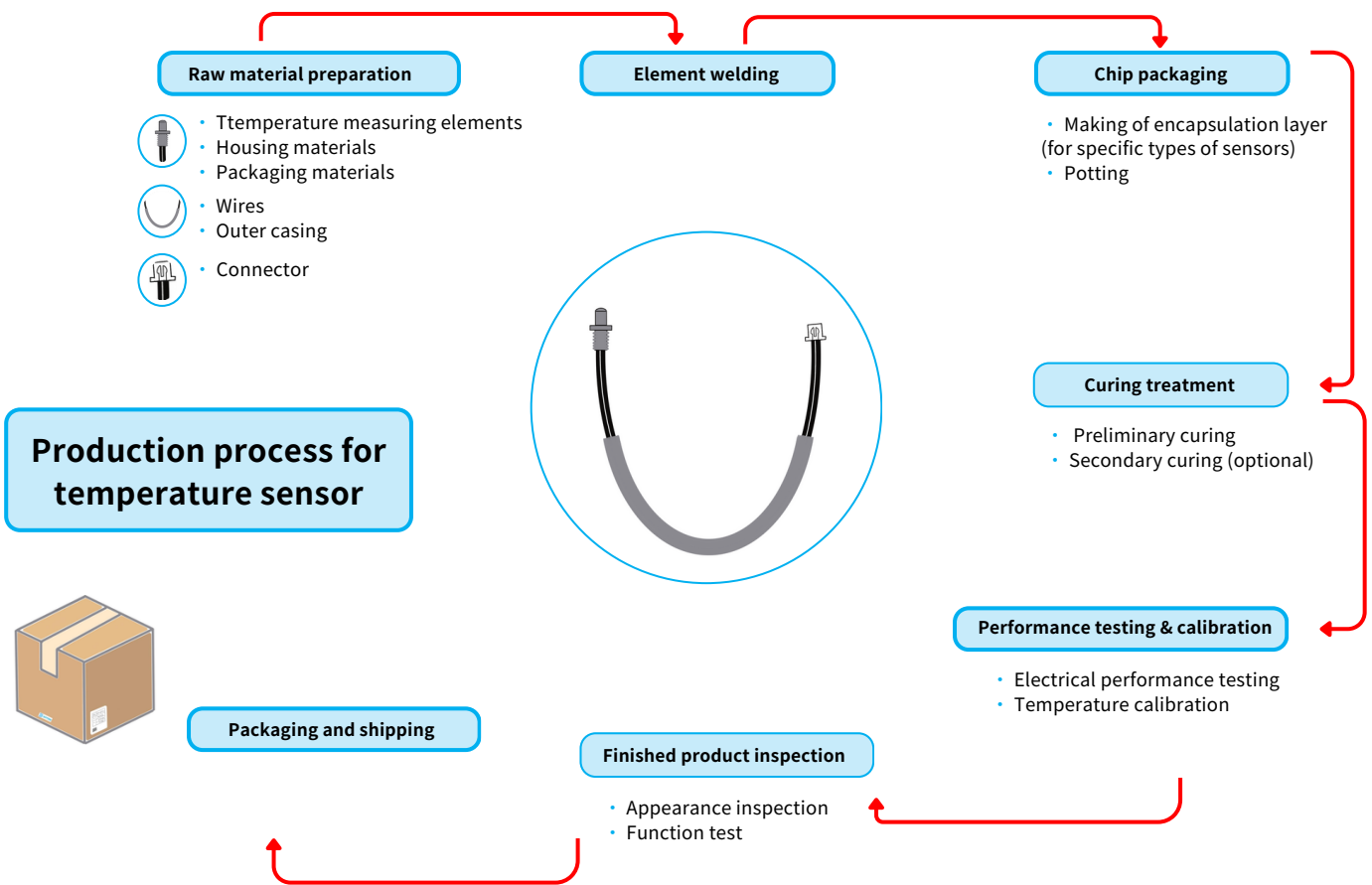
NTC SINGLE-ENDED GLASS SEALED ELEMENT

Encapsulation: Single ended glass seal

$R_{180}=1.247k\Omega \pm 1\%$
 $B_{25/50}=2240k \pm 1\%$

Op. Temp.: $-50^{\circ}C \sim 300^{\circ}C$
Thermal Time Constant: $\tau=6S$
Max Rated Power: 40mW





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