

Model BT series

Needle Type Probes

BT模式系列

BT模式系列产品的顶端呈针形，是可以插入半固态物体中的温度感应器。其中一部分型号产品的针形顶端可更换，可以单独购买针形顶端配件。通过对各个规格的组件进行重新组合的方式，可以按照客户的使用需求进行选配。

Model BT series probes feature needle tips that can be inserted into semi-solid materials.

Needle tips for models with replaceable tips can be purchased separately.

Specific components may be combined to customize products for the needs of a customer's specific application.

モデルBTシリーズは、先端の針部を半固形物に突き刺す事ができる温度センサです。

針部の交換が可能なモデルでは、針部のみの購入も可能です。各パーツの仕様を組み合わせる事により、お客様の用途に合わせてカスタマイズする事が出来ます。

Typical probes of BT series

Type K Model BT-31K-TC1-ANP
Type E Model BT-31E-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	1.5 s	S

Type K Model BT-92K-TC1-ANP
Type E Model BT-92E-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-200~500°C	±2.5°C (at 100°C)	3.0 s	B

Type K Model BT-72K-TC1-ANP
Type E Model BT-72E-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	1.5 s	S

Type K Model BT-22K-TC1-ANP
Type E Model BT-22E-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	1.5 s	C

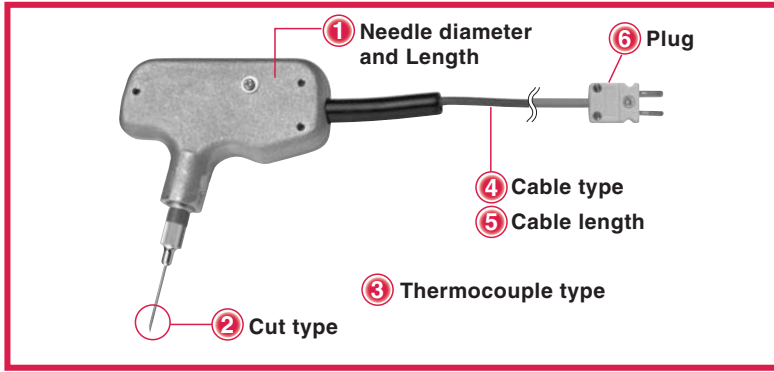
Type K Model BT-11K-TC1-ANP
Type E Model BT-11E-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-200~210°C	±2.5°C (at 100°C)	0.5 s	C

Type K Model BTN-41K
Type E Model BTN-41E

Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	1.5 s	S

How to order of BT series



BT-31K-TC1-ANP



① Needle diameter and Length (Max. temp.)	1 : ϕ 0.9mm : 15mm (210°C) 2 : ϕ 1.5mm : 30mm (300°C) 3 : ϕ 1.6mm : 30mm (300°C) 4 : ϕ 1.6mm : 40mm (300°C) 5 : ϕ 1.6mm : 50mm (300°C) 6 : ϕ 1.6mm : 60mm (300°C) 7 : ϕ 1.6mm : 70mm (300°C) 8 : ϕ 5.0mm : 75mm (500°C) 9 : ϕ 5.0mm : 100mm (500°C) (Top is ϕ 3mm)
② Cut type	1 : Cut 2 : Sharp
③ Thermocouple type	K : Chromel-Alumel E : Chromel-Constantan
④ Cable type (See page 5)	TC :
⑤ Cable length	1 : 1m 1.5 : 1.5m 2 : 2m 2.5 : 2.5m
⑥ Plug (See page 4)	ANP : P plug ASP : S plug W : Without plug

① Needle diameter and Form

You can choose grip form as below.

	Form
BT-1* BT-2*	90mm
BT-3* BT-4* BT-5* BT-6* BT-7* BT-8*	96mm With replaceable tips
BT-9*	120mm

② Cut type

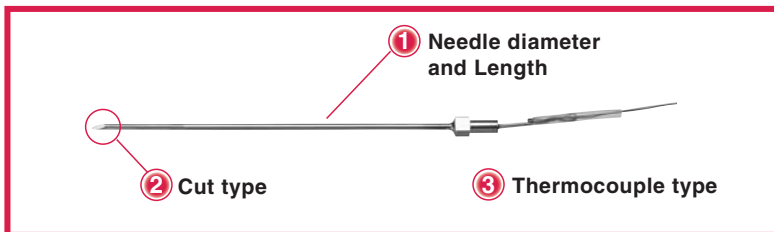
You can choose cut type as below.



Specifications

Needle diameter	Response time	Tolerance (at 100°C)	Durability rank
BT-1*	0.5 s	\pm 2.5°C	C
BT-2*	1.5 s	\pm 2.5°C	C
BT-3*~BT-7*	1.5 s	\pm 2.5°C	S
BT-8*	3.0 s	\pm 2.5°C	S
BT-9*	3.0 s	\pm 2.5°C	B

How to order of Spare needle



Spare needle is a five-pieces set

BTN-41K



① Needle diameter and Length (Max.temp.)	3 : ϕ 1.6mm : 30mm (300°C) 4 : ϕ 1.6mm : 40mm (300°C) 5 : ϕ 1.6mm : 50mm (300°C) 6 : ϕ 1.6mm : 60mm (300°C) 7 : ϕ 1.6mm : 70mm (300°C) 8 : ϕ 5.0mm : 75mm (500°C)
② Cut type	1 : Cut 2 : Sharp
③ Thermocouple type	K : Chromel-Alumel E : Chromel-Constantan