

Model **BT** series

Needle Type Probes

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

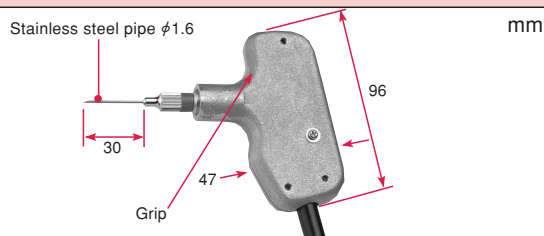
Needle tips for models with replaceable tips can be purchased separately.

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



Typical Probes of BT series

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



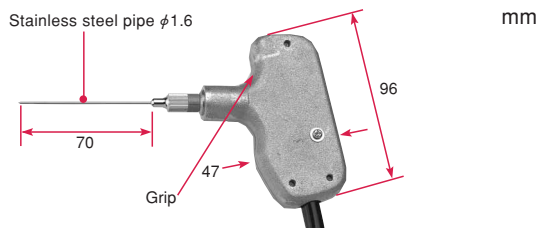
Temp. Range	Accuracy	Response time	Durability
-200~300°C	±1.3°C (at 100°C)	1.5 s	S

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



Temp. Range	Accuracy	Response time	Durability
-200~500°C	±1.3°C (at 100°C)	3.0 s	B

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



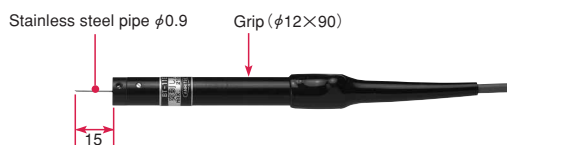
Temp. Range	Accuracy	Response time	Durability
-200~300°C	±1.3°C (at 100°C)	1.5 s	S

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



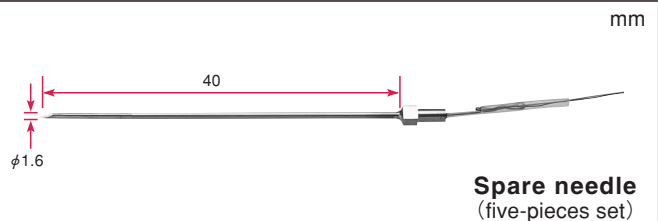
Temp. Range	Accuracy	Response time	Durability
-200~300°C	±1.3°C (at 100°C)	1.5 s	C

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



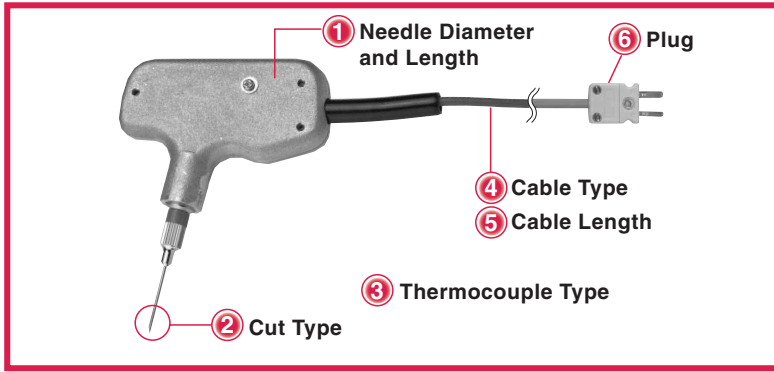
Temp. Range	Accuracy	Response time	Durability
-200~210°C	±1.2°C (at 100°C)	0.5 s	C

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



Temp. Range	Accuracy	Response time	Durability
-200~300°C	±1.3°C (at 100°C)	1.5 s	S

How to order of BT series

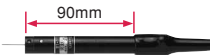
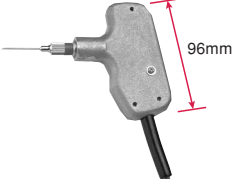



BT-31K-TC1-ANP



1 Needle Diameter and Form

You can choose Grip Form as below.

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

2 Cut Type

You can choose Cut Type as below.

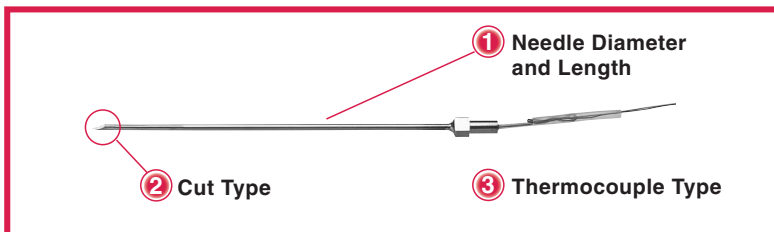


1 Needle Diameter and Length (Max.Temp.)	1 : ϕ 0.9mm : 15mm (210°C) 2 : ϕ 1.5mm : 30mm (300°C) 3 : ϕ 1.6mm : 30mm (300°C) 4 : ϕ 1.6mm : 40mm (300°C) 5 : ϕ 1.6mm : 50mm (300°C) 6 : ϕ 1.6mm : 60mm (300°C) 7 : ϕ 1.6mm : 70mm (300°C) 8 : ϕ 5.0mm : 75mm (500°C) 9 : ϕ 5.0mm : 100mm (500°C) (Top is ϕ 3mm)
2 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

Specifications

Needle Diameter	Response time	Accuracy (at 100°C)	Durability rank
BT-1*	0.5s	\pm 1.2°C	C
BT-2*	1.5s	\pm 1.3°C	C
BT-3*~BT-7*	1.5s	\pm 1.3°C	S
BT-8*	3.0s	\pm 1.3°C	S
BT-9*	3.0s	\pm 1.3°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