

Model BC series

Internal Probes For Food



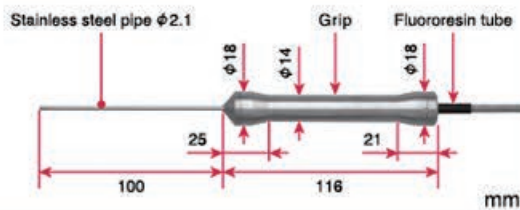
Internal temperature measurement of food
测量食品内部温度

Model BC series has waterproof performance (IPX5) and is suitable for measuring the center temperature of foods and semi-solids.

BC系列产品，适用于半固体·液体等食品的内部温度检测。IPX5防水功能，可用自来水清洗，保持清洁卫生。为防止异物混入食品，采用无脱落零部件构造。

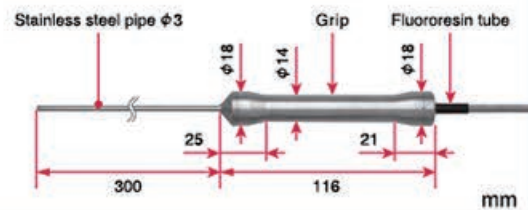
Typical probes of BC series 典型产品

Type K Model BC-21K-010-TC1-ANPC
Type E Model BC-21E-010-TC1-ANPC



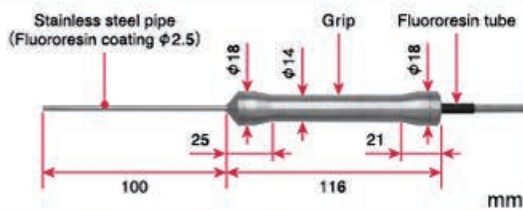
Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	2.5 s	B

Type K Model BC-31K-030-TC1-ANPC
Type E Model BC-31E-030-TC1-ANPC



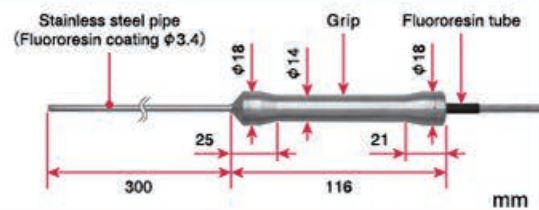
Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	3 s	B

Type K Model BC-22K-010-TC1-ANPC
Type E Model BC-22E-010-TC1-ANPC



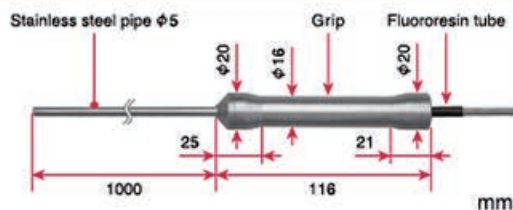
Temp. range	Tolerance	Response time	Durability
-200~200°C	±2.5°C (at 100°C)	20 s	B

Type K Model BC-32K-030-TC1-ANPC
Type E Model BC-32E-030-TC1-ANPC



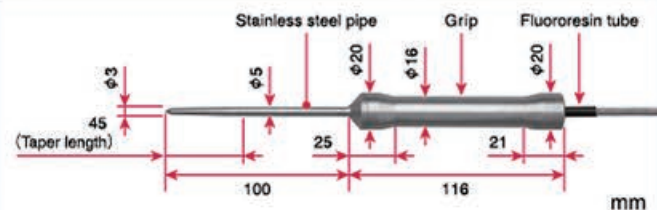
Temp. range	Tolerance	Response time	Durability
-200~200°C	±2.5°C (at 100°C)	20 s	B

Type K Model BC-51K-100-TC1-ANPC
Type E Model BC-51E-100-TC1-ANPC



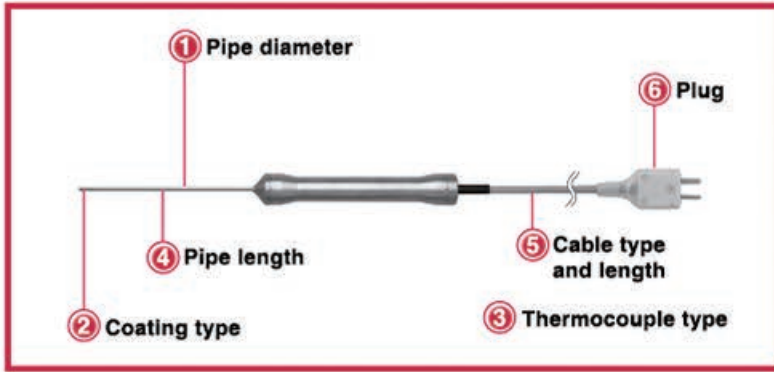
Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	5 s	B

Type K Model BC-91K-010-TC1-ANPC
Type E Model BC-91E-010-TC1-ANPC



Temp. range	Tolerance	Response time	Durability
-200~300°C	±2.5°C (at 100°C)	3 s	B

How to order of BC series 选型



BC-21K-010-TC1-ANPC



① Pipe diameter 钢针的外径	2 : $\phi 2.1\text{mm}$ ($\phi 2.5\text{mm}$) ^{※1} 3 : $\phi 3\text{mm}$ ($\phi 3.4\text{mm}$) ^{※1} 5 : $\phi 5\text{mm}$ 9 : $\phi 5\text{mm}$ - Top $\phi 3\text{mm}$
② Coating type 探针镀膜	1 : No coating 2 : Fluororesin coating (Only BC-22, BC-32)
③ Thermocouple type 热电偶种类	K : Chromel-Alumel E : Chromel-Constantan
④ Pipe length 探针的长度	010 : 100mm (BC-2*, BC-3*, BC-91) 015 : 150mm (BC-2*, BC-3*) 020 : 200mm (BC-2*, BC-3*) 030 : 300mm (BC-3*) 050 : 500mm (BC-3*, BC-51) 100 : 1000mm (BC-51)
⑤ Cable type and length 导线的种类与长度 (See page 9)	TC1 Standard specifications : 1m The cable length can be specified each 0.5m.
⑥ Plug 插头 (See page 8)	ANPC (For AM-9***, HR-1*5*, AP-450) ASPC (For HR-1*0*, AP-400) with plug cover (PVC)

※1 Fluororesin coating diameter

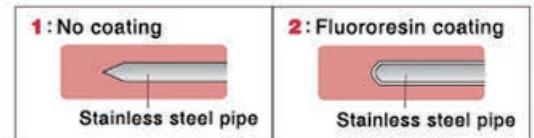
① Pipe diameter 钢针的外径

BC-2*	$\phi 2.1\text{mm}$ ($\phi 2.5\text{mm}$) [※]
BC-3*	$\phi 3.0\text{mm}$ ($\phi 3.4\text{mm}$) [※]
BC-51	$\phi 5.0\text{mm}$
BC-91	$\phi 5.0\text{mm}$ (Top is $\phi 3.0\text{mm}$)

※ Fluororesin coating diameter.

② Coating type 探针镀膜

You can choose coating type as below.



The operating temperature limit of Fluororesin-coated probes is 200°C, regardless of pipe diameter.

④ Pipe length 探针的长度

	BC-2* ($\phi 2.1$)	BC-3* ($\phi 3.0$)	BC-5* ($\phi 5.0$)	BC-9* ($\phi 5.0$ Top $\phi 3.0$)
010	●	●	—	●
015	●	●	—	—
020	●	●	—	—
030	—	●	—	—
050	—	●	●	—
100	—	—	●	—

Specifications of BC series 规格

Model number	BC-2*	BC-3*	BC-51	BC-91
Temp. range	-200~300°C ^{※1}	-200~300°C ^{※1}	-200~300°C	-200~300°C
Tolerance	-200°C ≤ t < 167°C	±7.0°C	±7.0°C	±7.0°C
	-167°C ≤ t < -40°C	±3.5°C	±3.5°C	±3.5°C
	-40°C ≤ t ≤ 300°C	±2.5°C	±2.5°C	±2.5°C
Response time ^{※2}	2.5s	3s	5s	3s
Durability	B			
Grip material	Stainless steel (SUS303)			

※1 The operating temperature limit for fluororesin coating specifications is 200°C.

※2 Fluororesin coating specification is 20 seconds.

※Please see website specifications of BC series.

Caution : Please keep in mind when measuring high temperature for a long time, the grip parts becomes hot.