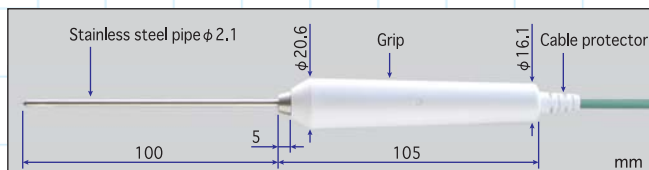
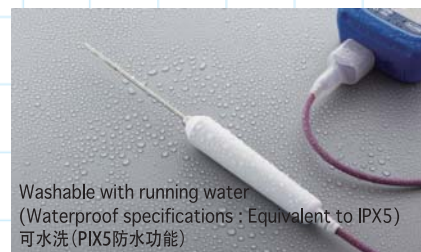


# Internal probes for food

## 食品用内部温度传感器 BW series

**New**

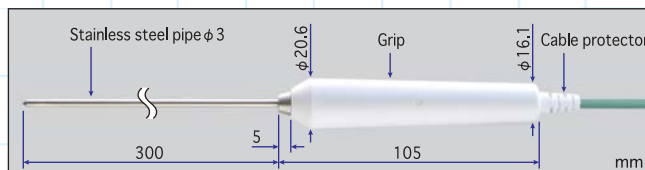
- Model BW series probes are internal temperature probes designed to measure the temperatures of food, liquid or semi-solid materials.
- Reliable waterproof specification (IPX 5). It can be used around water and be washed with running water.
- It is structured with consideration for the prevention of part falling off.
- Depending on the application, it is possible to combine the outside diameter, length, presence of coating of the protective pipe and plug shape.
- BW 系列产品使用于测量半固体・液体等食品的内部温度。
- IPX5 防水功能。可水洗。
- 防止异物混入加工食品, 采用无可脱落零部件构造。
- 可根据用途自由组配测棒外径・长度・镀膜・插件等。



Type K model : **BW-21K-010-TC1-ANPC**

Type E model : **BW-21E-010-TC1-ANPC**

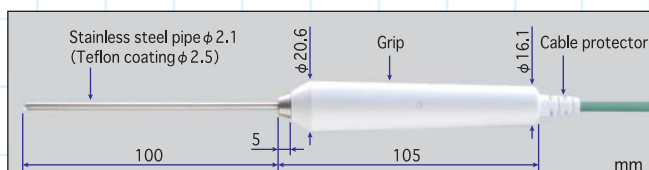
Temp.range 温度范围	Tolerance 精度	Response time 响应速度
-200~500°C	±2.5°C (at 100°C/在 100°C)	2.5s



Type K model : **BW-31K-030-TC1-ANPC**

Type E model : **BW-31E-030-TC1-ANPC**

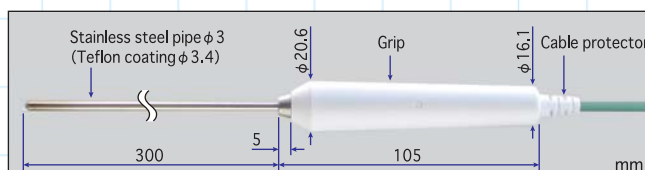
Temp.range 温度范围	Tolerance 精度	Response time 响应速度
-200~500°C	±2.5°C (at 100°C/在 100°C)	3s



Type K model : **BW-22K-010-TC1-ANPC**

Type E model : **BW-22E-010-TC1-ANPC**

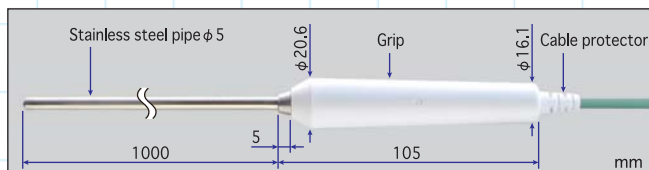
Temp.range 温度范围	Tolerance 精度	Response time 响应速度
-200~200°C	±2.5°C (at 100°C/在 100°C)	20s



Type K model : **BW-32K-030-TC1-ANPC**

Type E model : **BW-32E-030-TC1-ANPC**

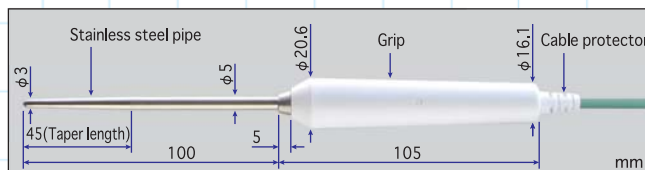
Temp.range 温度范围	Tolerance 精度	Response time 响应速度
-200~200°C	±2.5°C (at 100°C/在 100°C)	20s



Type K model : **BW-51K-100-TC1-ANPC**

Type E model : **BW-51E-100-TC1-ANPC**

Temp.range 温度范围	Tolerance 精度	Response time 响应速度
-200~500°C	±2.5°C (at 100°C/在 100°C)	5s



Type K model : **BW-91K-010-TC1-ANPC**

Type E model : **BW-91E-010-TC1-ANPC**

Temp.range 温度范围	Tolerance 精度	Response time 响应速度
-200~500°C	±2.5°C (at 100°C/在 100°C)	3s



安立計器株式会社  
ANRITSU METER CO.,LTD.



# CUSTOMIZE

ANRITSU METER THERMOCOUPLE PROBES FREE COMPONENT SERIES

## BW series [ Customization 选型 ]

Specific components may be combined to customize products for the needs of a customer's specific application.  
可根据多种多样的用途进行选型。可根据客户的用途自由搭配。



**BW - 21K - 010 - TC1 - ANPC**

### Specifications of BW BW 系列的规格

Model number 型号※1	BW-21■	BW-22■	BW-31■	BW-32■	BW-51■	BW-91■
Thermocouple type 热电偶型号	Type K or E	K 型或 E 型				
Temp. range ※2 温度范围	-200~ 500℃	-200~ 200℃	-200~ 500℃	-200~ 500℃	-200~ 500℃	-200~ 500℃
Tolerance 精度※3	0℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	100℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	200℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	300℃	±2.5℃	—	±2.5℃	—	±2.5℃
	400℃	±3.0℃	—	±3.0℃	—	±3.0℃
	500℃	±3.8℃	—	±3.8℃	—	±3.8℃
	Tolerance calculation method 精度的计算方法 t: Temperature 温度	In the operating temperature range 使用温度范围 -200℃ ≤ t < -167℃ : ±7.0℃ -167℃ ≤ t < -40℃ : ±3.5℃ -40℃ ≤ t < 333℃ : ±2.5℃ 333℃ ≤ t ≤ 500℃ : ±(0.0075×t)℃				
Response time 响应速度※4	2.5s	20s	3s	20s	5s	3s
Durability 耐久性※5	More than 1 year 1 年以上					
Pipe outside diameter 头部外径	φ 2.1mm	φ 2.5mm	φ 3mm	φ 3.4mm	φ 5mm	φ 5mm Tip φ 3mm
Coating type 镀膜	—	●	—	●	—	—
Pipe material 头部材质	Stainless 不锈钢 (SUS304)					
Grip material 握柄材质	Nylon resin 尼龙树脂					
Waterproof specifications 防水功能	IPX5 (Please be sure to wipe off moisture after washing.) IPX5 (水洗后请擦干。)					
Repair 修理	Non-repairable 不可修理品					

※1 The (■) symbol is replaced by the corresponding thermocouple type (K or E). In addition, The form of probe later the thermocouple type are omitted.  
型号的 ■ 里输入热电偶种类 (K 型或 E 型)。并, 省略热电偶种类以下的型号。

※2 Please note that the operating temperature range is the temperature range in which the temperature measuring part of the probe and the guard etc can contact, and it is not applied otherwise.  
使用极限温度是根据传感器前端的耐热温度来决定。请注意, 夹扣, 导线和插头等部分的耐热温度与使用极限温度有一定的差异。

※3 Tolerance is defined in the operating temperature range of -196℃ or higher at the internal temperature with sufficient heat capacity. For tolerance at temperature not listed in the above table, please refer to calculation method of tolerance.  
精度规定在有充分热容量的内部温度范围内。-196℃ 以上, 未列表的精度请参照精度的计算方法。

※4 The response time given for our temperature measuring probes is the time required to detect 99% of the true value when measuring the temperature of boiling water or vapor.  
响应速度是指, 测量沸水或沸腾蒸气时, 到达真值的 99% 时所需要的时间。

※5 When used correctly, virtually no deterioration occurs in these products due to temperature measuring operations. Therefore, the durability is based on the ease with which impact results in damage. The durability is defined as 1 year or more in little or no degradation of quality.  
正确测温情况下几乎不会劣化。耐久性能为约 1 年以上。

### How to order 选型表

**BW - 21K - 010 - TC1 - ANPC**

① ② ③ ④ ⑤ ⑥ ⑦

① Pipe outside diameter 头部外径	2	φ 2.1 mm (φ 2.5mm)※6
	3	φ 3mm (φ 3.4mm)※6
	5	φ 5mm
	9	φ 5mm — Tip φ 3mm
② Coating type 镀膜	1	Not coating 无镀膜
	2	Teflon coating 镀铁氟龙 (Only BW-22, BW-32/ 只限 BW-22, BW-32)
③ Thermocouple type 热电偶型号	K	Chromel-Alumel 镍铬合金 - 康铝合金
	E	Chromel-Constantan 镍铬合金 - 康铜合金
④ Pipe length 钢管长度	010	100mm
	015	150mm
	020	200mm
	030	300mm
	050	500mm
	100	1000mm
⑤ Cable type 导线型号	TC	φ 4mm Silicone rubber insulated cable φ 4mm 硅胶 (Max.240℃)
	1	1m
⑥ Cable length 导线长度	2	2m
	3	3m
	⋮	⋮
	⋮	⋮
⑦ Plug 插件型号	ANPC	Miniature connector with plug cover 附带 ANP 插头套
	ASPC	Standard plug with plug cover 附带标准插头套

※6 The dimension of "( )" is the outside diameter including the thickness of Teflon coating. ( ) 内为镀铁氟龙外模的外径。



**安立計器株式会社**  
**ANRITSU METER CO.,LTD.**

2-4-5, Shimomeguro,  
Meguro-ku, Tokyo 153-0064, JAPAN

Phone : 81-3-3491-9181

Telefax : 81-3-3493-6729

<https://www.anritsu-meter.com>

[sales@anritsu-meter.co.jp](mailto:sales@anritsu-meter.co.jp)