

Special Application Probes

The special application probes are tailor-made for specific measurement purposes. Anritsu Meter offers a wide array of probe types for extremely small surfaces, for air temperature measurements for insertion use, and other uses.

特殊传感器

针对不同用途而设计的温度传感器。

备有微型表面用，空气温度用，插入型等各种传感器。

How to order of special application probes 选型

The probes shown from page 75 to page 79 are available with customer-specified thermocouples, compensating lead wire lengths (cable section), and connection plug types.

75页至79页介绍的温度传感器的热电偶种类，补偿导线的长度（接线部分）以及插头的形状都可以按照客户的需求选配。

Example:

123K-TC1-ANP



Thermocouple type	Choose type K or type E Be sure to choose the same thermocouple type as the one used for the main thermometer unit.	请选择E型或者K型 请选择与温度计主机相同类型的热电偶。
Cable length	Length of cable section Specify a cable length in 0.5m increments.	接线的长度 可以以0.5m为单位指定长度。
Plug	Choose ANP or ASP Be sure to choose the same plug type as the one used for the main thermometer unit.	请选择ANP或者ASP 请选择与温度计主机相同形状的插头。

Attention

The following probes have certain restrictions on customization.

下列型号的温度传感器中，客户可选配的内容有限制。

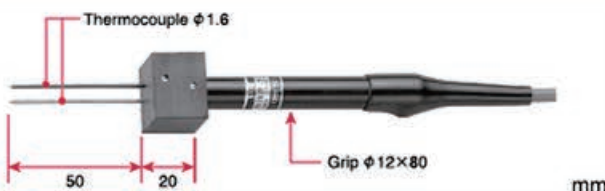
Model No.	Restrictions
619	These probes are type K only.
620	
621	

※ For detailed information on thermocouples, cables, and plugs, refer to "Attention of Order" on pages 8 and 9.

※ 有关热电偶，补偿导线，插头的具体规格请参考 [8-9页 订购注意事项]

Molten metal surface probes

Type K Model **518K-TC1-ANP**
Type E Model **518E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
0~700°C	±2.5°C (at 100°C)	2 s	S

Type K Model **524K-TC1-ANP**
Type E Model **524E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
0~700°C	±2.5°C (at 100°C)	2 s	S

No Junction type probes applications

This probe can not measure the internal temperature of molten metal because the junction is formed on the surface of molten metal.



Micro sensor probes (Thin head type)

Type K Model **310K-TC1-ANP**
Type E Model **310E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~250°C	±2.5°C (at 100°C surface)	1 s	B

Type K Model **343K-TC1-ANP**
Type E Model **343E-TC1-ANP**

30° Pipe angle type



Temp. range	Tolerance	Response time	Durability
-50~250°C	±2.5°C (at 100°C surface)	1 s	B

High temperature probes

Model **619K-010-TC1-ANP**
L



Temp. range	Tolerance	Response time	Durability
-50~1200°C	±2.5°C (at 100°C surface)	15 s	B

Model **620K-010-TC1-ANP**
L



Temp. range	Tolerance	Response time	Durability
-50~1200°C	±2.5°C (at 100°C surface)	15 s	B

Model **621K-010-TC1-ANP**
L



Temp. range	Tolerance	Response time	Durability
-50~1200°C	±2.5°C (at 100°C surface)	15 s	B

Specify the pipe length "L".

L	Pipe length
010	100mm
020	200mm
030	300mm
050	500mm
100	1000mm

※These probes are suitable for high temperature measurement of stationary metallic surface.

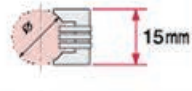
Pipe outside probes

Type K Model 123K- ϕ 50-TC1-ANP
Type E Model 123E- ϕ 50-TC1-ANP

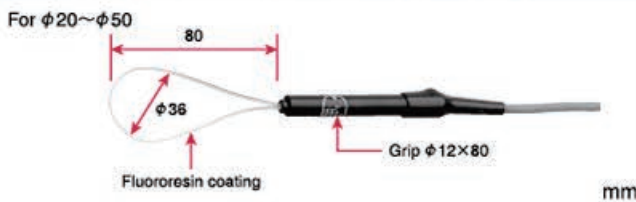


Temp. range	Tolerance	Response time	Durability
-50~250°C	±2.5°C (at 100°C surface)	2 s	B

These probes are ideal for measuring the temperatures of surfaces having a small-radius bend, such as pipes.
 Choose the most appropriate guard, based on the diameter of the measurement target.

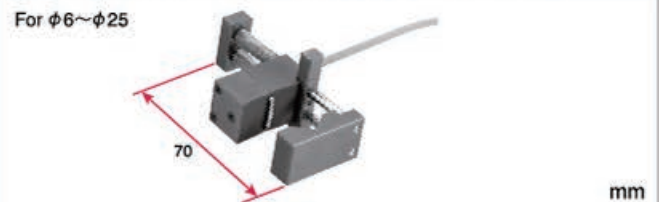
Guard form	Producibile range	Tolerance when specified
	φ9~15mm	±1mm
	φ16~39mm	±2mm
	φ40~100mm	±5mm

Type K Model 528K-TC1-ANP
Type E Model 528E-TC1-ANP



Temp. range	Tolerance	Response time	Durability
-50~210°C	±2.5°C (at 100°C surface)	3 s	B

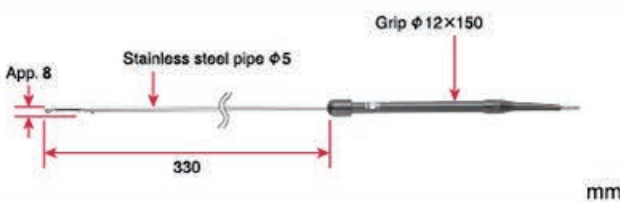
Type K Model 1811K-TS1-ANP
Type E Model 1811E-TS1-ANP



Temp. range	Tolerance	Response time	Durability
-50~100°C	±2.5°C (at 100°C surface)	2 s	S

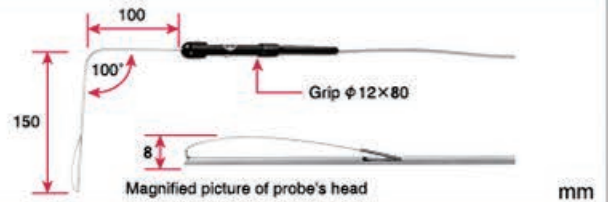
Pipe inside probes

Type K Model 344K-TC1-ANP
Type E Model 344E-TC1-ANP



Temp. range	Tolerance	Response time	Durability
-50~400°C	±2.5°C (at 100°C surface)	5 s	C

Type K Model 305K-TC1-ANP
Type E Model 305E-TC1-ANP



Temp. range	Tolerance	Response time	Durability
-50~220°C	±2.5°C (at 100°C surface)	2 s	C

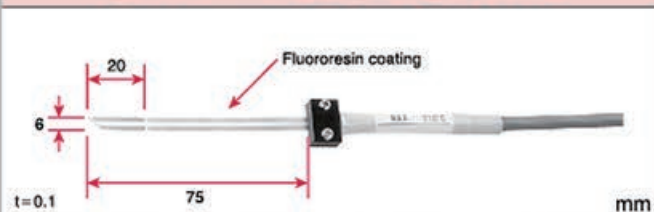
Pipe inside probes applications



Flat leaf probes

Type K Model **503K-TC1-ANP**

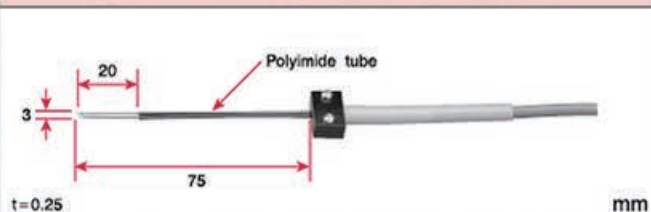
Type E Model **503E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~210°C	±2.5°C (at 100°C)	3 s	S

Type K Model **505K-TS1-ANP**

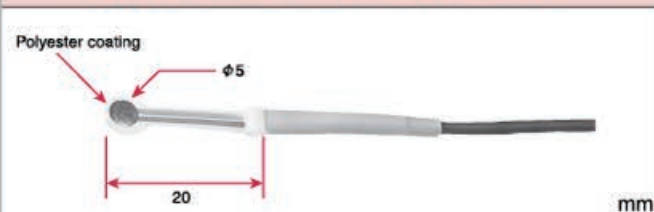
Type E Model **505E-TS1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~400°C	±2.5°C (at 100°C)	6 s	S

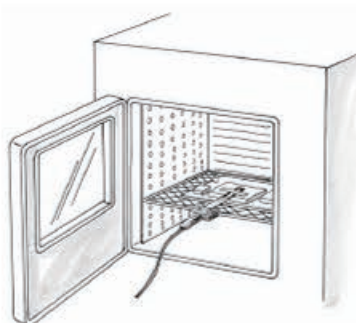
Type K Model **540K-TS1-ANP**

Type E Model **540E-TS1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~100°C	±2.5°C (at 100°C)	8 s	S

Flat leaf probes applications



Insertion probes

Type K Model **502K-TC1-ANP**

Type E Model **502E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~210°C	±2.5°C (at 100°C)	3 s	S

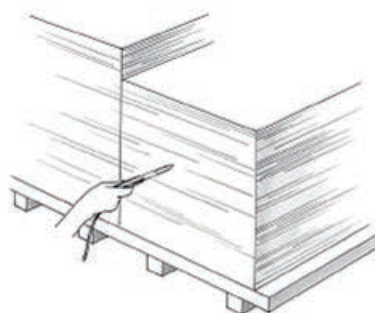
Type K Model **504K-TC1-ANP**

Type E Model **504E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C)	6 s	S

Insertion probes applications



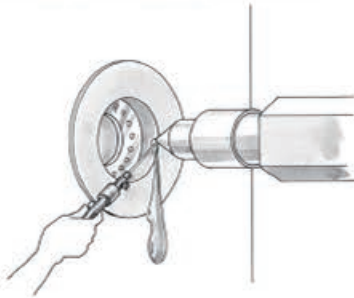
Depth adjustable probes

Type K Model **520K-TC1-ANP**
Type E Model **520E-TC1-ANP**



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

Depth adjustable probes applications



Heavy duty moving surface probes

Type K Model **213K-TC1-ANP**
Type E Model **213E-TC1-ANP**



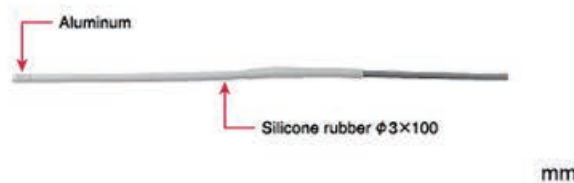
Temp. range	Tolerance	Response time	Durability
-50~600°C	±2.5°C (at 100°C)	5 s	B

The following model designations are used, based on the length of the stainless pipe:

Stainless pipe length	Model
100mm	213K-TC1-ANP
200mm	214K-TC1-ANP
300mm	215K-TC1-ANP
500mm	216K-TC1-ANP
1000mm	217K-TC1-ANP

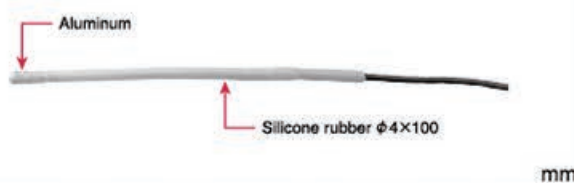
Soft body probes

Type K Model **1600K-TS1-ANP**
Type E Model **1600E-TS1-ANP**



Temp. range	Tolerance	Response time	Durability
0~200°C	±2.5°C (at 100°C)	4 s	S

Type K Model **1601K-TS1-ANP**
Type E Model **1601E-TS1-ANP**



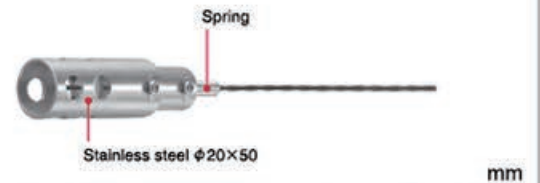
Temp. range	Tolerance	Response time	Durability
0~200°C	±2.5°C (at 100°C)	4 s	S

Soft body probes applications



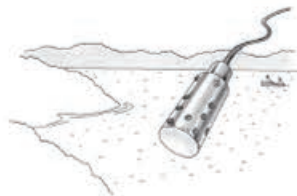
Drop probes

Type K Model **530K-TF5-ANP**
Type E Model **530E-TF5-ANP**



Temp. range	Tolerance	Response time	Durability
-50~150°C	±2.5°C (at 100°C)	3 s	S

Drop probes applications



Strong lead cable enable this probe to throw into sea, bath and tank. 5 meters lead cable is provided for standard order.