

Model A series

General Stationary Surface Probes

Model A series probes are general-purpose temperature sensors designed to measure the temperatures of stationary surfaces. Specific components may be combined to customize products for the needs of a customer's specific application.

Typical probes of A series

Type K Model **A-131K-00-1-TC1-ANP**
Type E Model **A-131E-00-1-TC1-ANP**



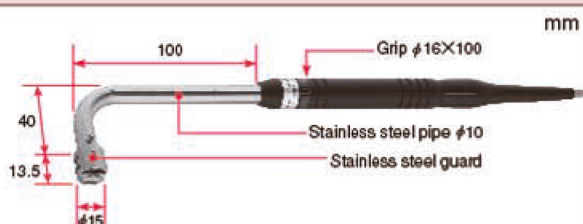
Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model **A-231K-00-1-TC1-ANP**
Type E Model **A-231E-00-1-TC1-ANP**



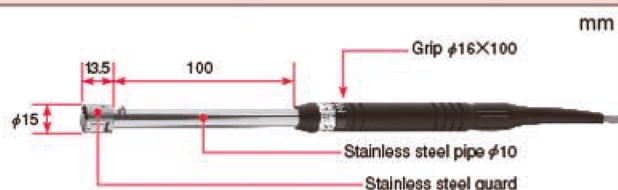
Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model **A-233K-01-1-TC1-ANP**
Type E Model **A-233E-01-1-TC1-ANP**



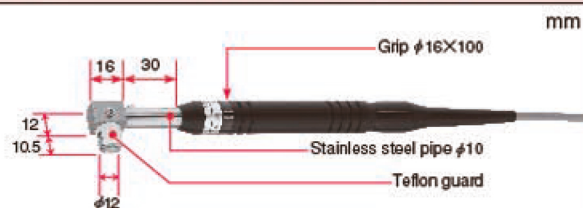
Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model **A-241K-01-1-TC1-ANP**
Type E Model **A-241E-01-1-TC1-ANP**



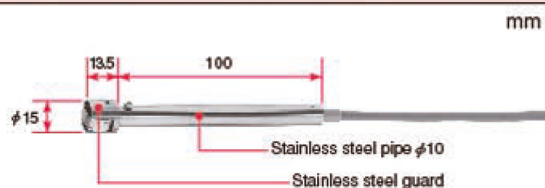
Temp. range	Tolerance	Response time	Durability
-50~800°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model **A-314K-00-1-TC1-ANP**
Type E Model **A-314E-00-1-TC1-ANP**



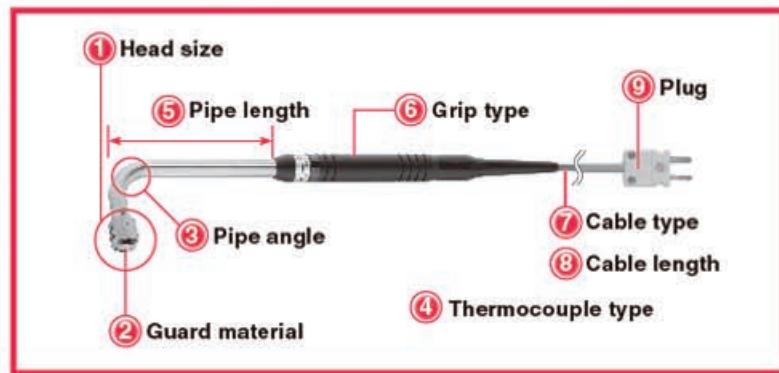
Temp. range	Tolerance	Response time	Durability
-50~300°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model **A-231K-01-0-TC1-W**
Type E Model **A-231E-01-0-TC1-W**



Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

How to order of A series



A-233K-01-1-TC1-ANP

1 2 3 4 5 6 7 8 9

① Head size	1 : $\phi 27\text{mm}$ 2 : $\phi 15\text{mm}$ 3 : $\phi 12\text{mm}$
② Guard material (Max. temp.)	1 : Teflon (300°C) 2 : Polyimide (400°C) 3 : Stainless (500°C) 4 : Stainless for high temp. (800°C)*1 5 : Teflon (200°C) (Contact plate is coated by teflon.) 6 : Polyimide (300°C) (Contact plate is coated by polyimide.) 7 : Without guard (500°C) (Only A-17*)
③ Pipe angle	1 : Straight 2 : 45 degrees 3 : 90 degrees 4 : 90 degrees (elbow) 5 : 45 degrees*2 6 : 90 degrees*2 7 : 90 degrees (elbow) *2
④ Thermocouple type	K : Chromel-Alumel E : Chromel-Constantan
⑤ Pipe length	00 : 30mm *1,*3 01 : 100mm 02 : 200mm 10 : 1000mm
⑥ Grip type	0 : No grip (For fixed-position measurement) 1 : Standard grip (For handheld measurement)
⑦ Cable type (See page 5)	TC
⑧ Cable length	1 : 1m 1.5 : 1.5m 2 : 2m 2.5 : 2.5m
⑨ Plug (See page 4)	ANP ASP W

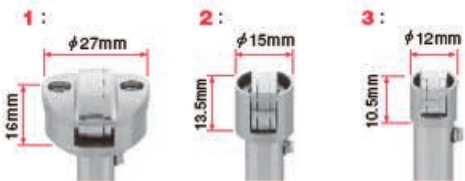
1 Not manufacturable (A-4■-00-0)

*2 Contact plate direction of right angle.

*3 Not manufacturable (A-2*2■-00-0, A-2*3■-00-0, A-2*4■-00-0,
A-2*5■-00-0, A-2*6■-00-0, A-2*7■-00-0)

① Head size

You can choose head size as below.

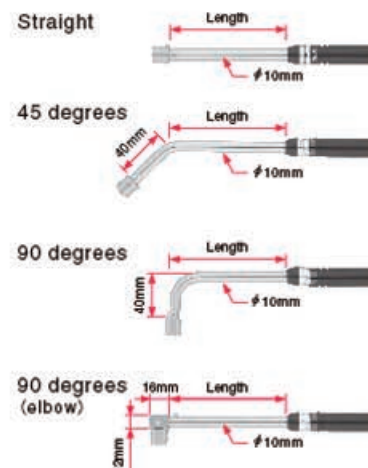


③ Pipe angle

You can choose Pipe angle as below.

	① Pipe Contact plate	② Pipe Contact plate
	1	
	2	5
	3	6
	4	7

⑤ Pipe length



⑥ Grip type

No grip	For device, system, auto-machines, mechanical system etc
Standard grip	For handheld measurement

Specifications

Tolerance	$\pm 2.5^\circ\text{C}$ (at 100°C surface)
Response time	1.5 s 3.5 s in the case of coated contact plate (A-5*, A-6*)
Durability rank	A (More than 75,000 contacts)