ANRITSU METER CO.,LTD.

General Stationary Surface Probes Model A series

Type E : Model A-231E-00-1-TC1-ANP

Type K : Model A-231K-00-1-TC1-ANP

Product Info

Temp. Range

-50°C to 500°C

Tolerance

-50°C ≦ t < 333°C : ±2.5°C
333°C ≦ t ≦ 500°C : ±(0.0075 × | t |)°C
* t : Measured temperature

Response time

1.5 s

Durability

More than 75,000 contacts

Cable type and length

Type E : TC-E 1m
Type K : TC-K 1m

Plug

Type E : ANP-E-M-L
Type K : ANP-K-M-L

Repair

Repairable

Remarks

* The operating temperature limit is determined by the allowable temperature limit of the probe head contacts the measurement target.
Note that the operating temperature limit is not the same as the allowable temperature limits of the grip, cable, and plug.
* The response time is the time required to detect 99% of the true value on a flat and smooth metal surface.
* Number of contacts enabling measurement within the tolerance range on a flat and smooth metal surface at a temperature of 300°C (or at the operating temperature limit if the operating temperature limit is below 300°C).
* Please contact the distributor for price and delivery.

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A-*1*/A-*2*/A-*3*/A-*4*/A-17*

Model number*1		A-*1*	A-*2*	A-*3*	A-*4*	A-17*
Thermocouple type		Type E or K				
Temp. range*2		-50 to 300°C	-50 to 400°C	-50 to 500°C	-50 to 800°C	-50 to 500°C
Tolerance*3	-50°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C
	0°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C
	100°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C
	200°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C
	300°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C	±2.5°C
	400°C	–	±3.0°C	±3.0°C	±3.0°C	±3.0°C
	500°C	–	–	±3.8°C	±3.8°C	±3.8°C
	600°C	–	–	–	±9.0°C	–
	700°C	–	–	–	±10.5°C	–
	800°C	–	–	–	±16.0°C	–
	Tolerance calculation method	At within temperature range				
	t:Temperature(°C)	1)-50°C ≦ t < -40°C:±2.5°C 2)-40°C ≦ t ≦ 500°C:±2.5°C or ± (0.0075 × | t |)°C, whichever is greater 3)500°C < t ≦ 700°C:±(0.015×|t|)°C 4)700°C < t ≦ 800°C:±(0.02×|t|)°C				
Response time*4		1.5s				
Durability*5		More than 75,000 contacts				
Pipe material		Stainless(SUS316)				
Grip material		Polyacetal				
Repair*6		Repairable				

A-*5*/A-*6*

Model number*1		**A-*5***	**A-*6***
Thermocouple type		**Type E or K**	
Temp. range*2		**-50 to 200°C**	**-50 to 300°C**
Tolerance*3	**-50°C**	**±2.5°C**	**±2.5°C**
	0°C	**±2.5°C**	**±2.5°C**
	100°C	**±2.5°C**	**±2.5°C**
	200°C	**±4.0°C**	**±4.0°C**
	300°C	**-**	**±6.0°C**
	Tolerance calculation method **t:Temperature(°C)**	**At within temperature range** **1)-50°C ≦ t < -40°C:±2.5°C** **2)-40°C ≦ t ≦ 300°C:±2.5°C or ± (0.02 × | t |)°C, whichever is greater**	
Response time*4		**3.5s**	
Durability*5		**More than 75,000 contacts**	
Pipe material		**Stainless(SUS316)**	
Grip material		**Polyacetal**	
Repair*6		**Repairable**	

*1 The asterisk (*) is replaced by the number of the model name you selected. The model number after thermocouple type is omitted.
*2 The operating temperature limit is determined by the allowable temperature limit of the sensor head contacts the measurement target. Note that the operating temperature limit is not the same as the allowable temperature limits of the grip, cable, and plug.
*3 Tolerance is available at -50°C or above within the operating temperature on a stationary flat and smooth metal surface. For tolerance at temperature not listed in the above table, please refer to calculation method of tolerance.
*4 The response time is the time required to detect 99% of the true value on a flat and smooth metal surface.
*5 Number of contacts enabling measurement within the tolerance range on a flat and smooth metal surface at a temperature of 300°C (or at the operating temperature limit if the operating temperature limit is below 300°C)
*6 Please refer to page repair.