

As the head part can be tilted at 4°, the head part follows and closely contacts the object to be measured.

头部可 **±4**° 摆动,密切追随・接触被测物。

Contact support function 接触辅助功能



For accurate temperature measurement, it is essential that temperature sensing part is in close contact with the object to be measured.

The contact support function reduces the contact error during measurement, and maintains the close contact between the object to be measured and the probe.

准确的测量温度,感温部与被测物密切接触为必须条件。接触辅助功能补正姿势误差,可保持被测物与传感器之间的紧密接触。准确的测量温度,提高生产效率。

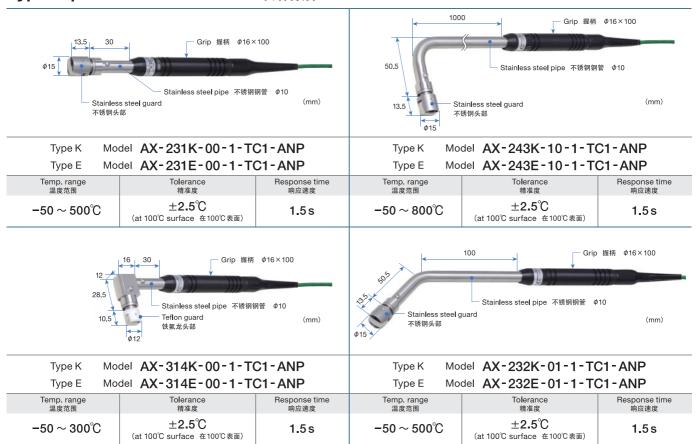
Suitable for such measurement conditions 适用环境

- ☐ When contacting the probe with the object to be measured while checking the temperature display.
- ☐ When measuring a part where it is difficult to see the object to be measured.
- □ 确认传感器接触状况的同时需要确认测量数据时
- □ 测量难以目视确认的被测物时

Freely selectable combination 自由组合

You can customize and use the temperature probes suitable for each application. 可根据被测物的大小·材质·温度等自由选择。可根据使用环境自由组合适合的温度传感器。

Typical probes of AX series AX系列代表例



AX series [Customization] AX系列 [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。



1 Head size 头部大小

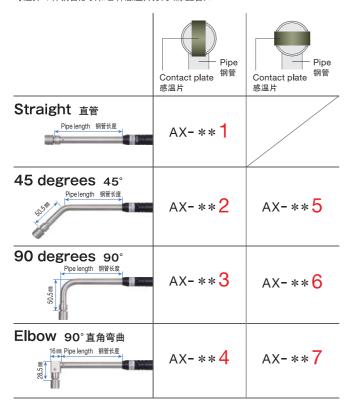
Please select according to the size and heat capacity of the object to be measured. 请根据被测物的大小·热容量选择。



3 Pipe shape and angle 钢管形状和感温片方向

Two types of contact plate orientations (excluding straights) are available for each of the four types of pipe shapes.

可选择4种钢管形状和2种感温片方向(除直管)。



2 Guard material and coating 头部材质和感温片镀膜

Please select according to the temperature and environment of the object to be measured. 请根据被测物的使用环境选择。

Teflon guard (low temp.)	
铁氟龙头部(低温用)	
AX-*1*	4
Temp.range 温度范围: -50 ~ 300℃	
Polyimide guard (high temp.)* 聚酰亚胺头部(高温用)* AX-*2* Temp.range 温度范围: -50~400℃	
Stainless steel guard (standard) 不锈钢头部(标准用) AX-*3* Temp.range 溫度范围: -50~500℃	
Stainless steel guard (high temp.) 不锈钢头部(高温用) AX-* 4* Temp.range 温度范围: -50~800℃	
Teflon guard with coating (low temp.) 铁氟龙头部绝缘型(低温用) AX-*5* Temp.range 温度范围: -50~200℃	
Polyimide guard with coating (high temp.)* 聚酰亚胺头部绝缘型(高温用)* AX-*⑥* Temp.range 温度范围: -50~300℃	

4 Thermocouple type 热电偶的种类

It is necessary to select the same thermocouple type as the thermometer.

选择温度计主机同一种类热电偶。

Туре К	K
Type E	E

5 Pipe length 钢管长度			
30 mm	00		
100 mm	01		
200 mm	02		
•	:		
1000 mm	10		

For the shape of pipe, please refer to the pipe shape table. 钢管的长度,请参考钢管形状的表。

6 Grip type 有无握柄

Grip type only. 有握柄

4

7 Cable type and length 导线型号和长度

The cable length can be specified each 0.5 meter. 导线的长度可以按照 0.5m 单位指定。

Standard cable TC 标准导线 TC	1m	TC1
Coating material: Silicone	1.5m	TC1.5
Heat resistant temp.: 240℃ 导线材质 硅胶 耐热温度: 240℃	m	TC ···

8 Plug		
Miniature plug ANP 插头	Anritsu standard plug 标准插头	Without plug ^{裸线}
ANP	ASP	W
300	- Sun	

The terminal manufactured of thermocouple material can be selected. Please contact us if you'd like further information. 同种热电偶和一般材质 Y 端子 / 圆孔端子也可制作。请询问代理店。

AX series [Specifications] AX系列 [规格]

Model numb	oer 型号 ^{※1}	AX-*1* ■	AX-*2*■	AX-*3* ■	AX-*4*■	AX-*5*■	AX-*6* ■
Thermocoup	ole type 热电偶种类	Type K or E					
Temp, range	温度范围 ※2	-50 ~ 300°C -50 ~ 400°C -50 ~ 500°C -50 ~ 800°C -50 ~ 200°C		-50 ~ 300°C			
Tolerance 精准度 ^{**3}	-50°C	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	0℃	±2 . 5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	100℃	±2 . 5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	200℃	±2 . 5℃	±2.5℃	±2 . 5℃	±2.5℃	±4.0℃	±4.0℃
	300℃	±2 . 5℃	±2.5℃	±2 . 5℃	±2.5℃	_	±6.0℃
	400℃	-	±3.0℃	±3.0℃	±3.0℃	_	_
	500℃	<u> </u>	-	±3.8℃	±3.8℃	_	_
	600°C	_	_	_	±9.0℃	_	_
	700℃	-	-	_	±10.5℃	_	_
	800℃	_	_	_	±16.0℃	_	_
	Tolerance calculation method t:Temperature(°C) 精准度的计算方法 t:温度(°C)	$\begin{array}{lll} AX-*1*\blacksquare, AX-*2*\blacksquare, AX-*3*\blacksquare, AX-*4*\blacksquare & AX-*5*\blacksquare, AX-*6*\blacksquare \\ \hline 050^\circ\mathbb{C} \leq t < 333^\circ\mathbb{C} : \pm 2.5^\circ\mathbb{C} & 050^\circ\mathbb{C} \leq t < 125^\circ\mathbb{C} : \pm 2.5^\circ\mathbb{C} \\ \hline 2.333^\circ\mathbb{C} \leq t \leq 500^\circ\mathbb{C} : \pm (0.0075\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} \\ \hline 3.500^\circ\mathbb{C} < t \leq 700^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} \\ \hline 4.700^\circ\mathbb{C} < t \leq 800^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \leq t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \otimes t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \otimes t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \otimes t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \otimes t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \otimes t \leq 300^\circ\mathbb{C} : \pm (0.02\times t)^\circ\mathbb{C} & 2.5^\circ\mathbb{C} \otimes t \leq 300^\circ\mathbb{C} & 3.5^\circ\mathbb{C} \otimes t \leq 300^\circ$					
Response tii	esponse time 响应速度 ^{※4} 1.5 s 1.5 s		1.5 s	1.5 s	3.5 s	3.5 s	
Durability 雨	f久性 ^{※5}	More than 75,000 contacts		·			
Movable range of	f the head 头部摆动幅度	±4°					
Repair 维修		Repairable 可维修					

- **1 The asterisk (*) is replaced by the number of the model name you selected. The model names after the thermocouple type are omitted.
 型号的*输入选择型号的数字。并省略了热电偶种类以后的型号。
- ※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. 使用温度范围是指传感器的感温片或者头部所能接触的温度范围,请注意。
- ※3 Tolerance is available at −50℃ or above within the operating temperature on a stationary flat and smooth metal surface. 精准度为测量−50℃以上的静止光滑金属表面温度的精准度。对于未计算的精准度,请参考计算方法。
- ※4 The response time is the time required to detect 99% of the true value on a flat and smooth metal surface.
 响应速度为,测量光滑的金属表面温度时达到 99% 的温度显示的速度。
- ※5 Number of contacts enabling measurement within the tolerance range on a flat and smooth metal surface at a temperature of 300℃ (or at the operating temperature limit if the operating temperature limit is below 300℃) 耐久性为用机械法测量 300℃光滑金属表面,且保证测量结果在允许误差范围内时能使用的次数。



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