

# Magnet Probes 内藏磁铁型

## Model MG series

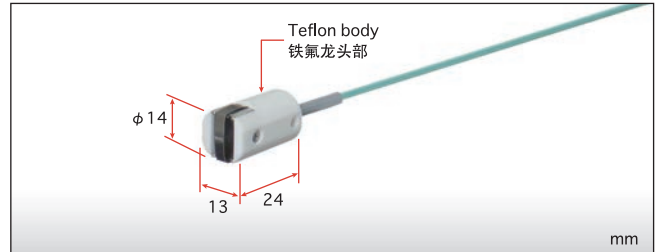
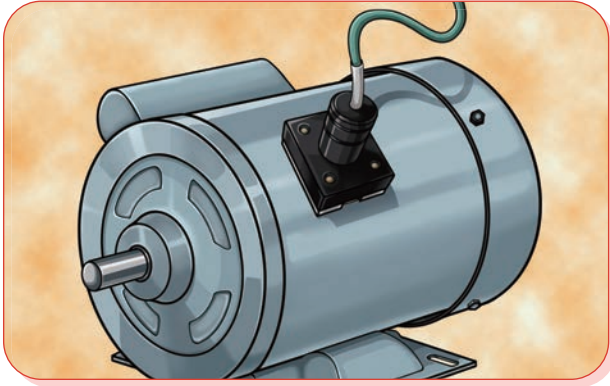
## MG 系列

- Model MG series probes are temperature sensors designed for stationary surfaces. Built-in magnets allow these probes to be attached to measurement targets.
- Specific components may be combined to customize products for the needs of a customer's specific application.
- MG 系列产品内藏磁铁,可吸附于设备·金属模具等表面进行表面温度测量。
- 头部形状·握柄有无·导线长度·插头形状等可自由选择,可以根据客户的用途进行选配。



**New**

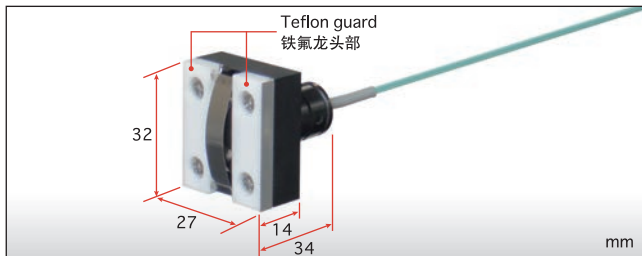
The guard is covered with a stainless steel cover, so the strength of the guard improved.  
头部包钢质外套,增强了头部的强度。(MG-62, MG-64)



Type K model : **MG-21K-TS1-ANP**

Type E model : **MG-21E-TS1-ANP**

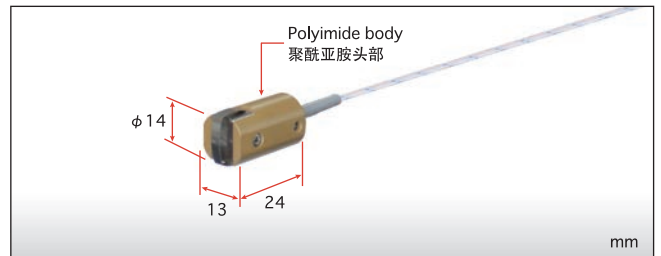
Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~250°C	±2.5°C (at 100°C surface/100°C表面)	2s



Type K model : **MG-11K-TS1-ANP**

Type E model : **MG-11E-TS1-ANP**

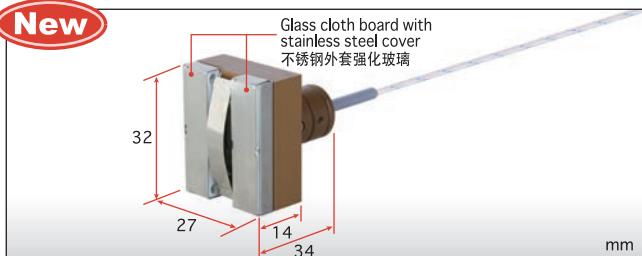
Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~250°C	±2.5°C (at 100°C surface/100°C表面)	2s



Type K model : **MG-22K-GW1-ANP**

Type E model : **MG-22E-GW1-ANP**

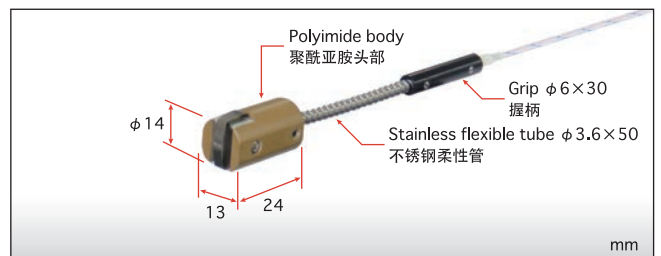
Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~400°C	±2.5°C (at 100°C surface/100°C表面)	2s



Type K model : **MG-62K-GW1-ANP**

Type E model : **MG-62E-GW1-ANP**

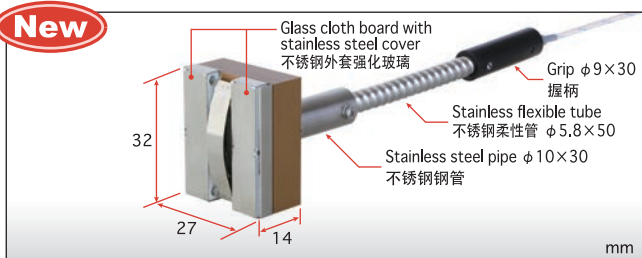
Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~400°C	±2.5°C (at 100°C surface/100°C表面)	2s



Type K model : **MG-24K-GW1-ANP**

Type E model : **MG-24E-GW1-ANP**

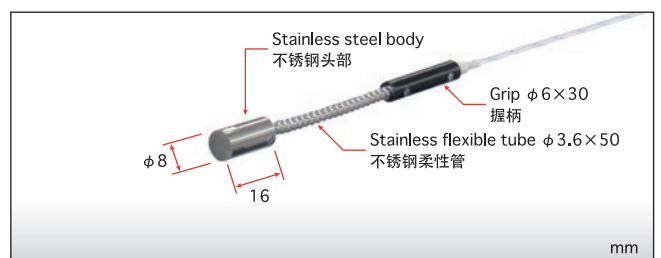
Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~400°C	±2.5°C (at 100°C surface/100°C表面)	2s



Type K model : **MG-64K-GW1-ANP**

Type E model : **MG-64E-GW1-ANP**

Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~400°C	±2.5°C (at 100°C surface/100°C表面)	2s



Type K model : **MG-34K-GX1-ANP**

Type E model : **MG-34E-GX1-ANP**

Temp.range 温度范围	Tolerance 精准度	Response time 响应速度
-50~400°C	±2.5°C (at 100°C surface/100°C表面)	2s

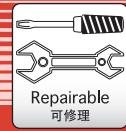


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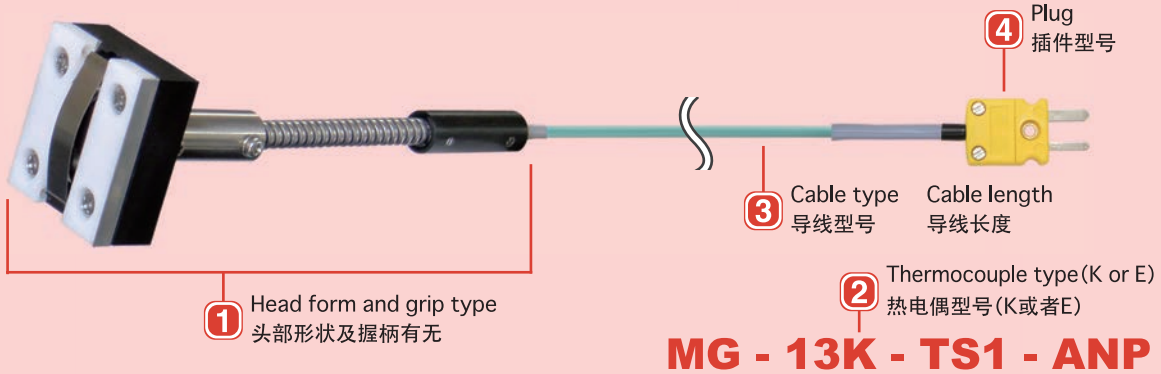
# CUSTOMIZE

ANRITSU METER THERMOCOUPLE PROBES FREE COMPONENT SERIES



## MG 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。



**MG - 13K - TS1 - ANP**

### Specifications of MG series MG系列的规格

Model number 型号	MG-11 ■	MG-21 ■	MG-22 ■	MG-33 ■	MG-34 ■	MG-62 ■	MG-64 ■
Thermocouple type 热电偶型号	Type K or E K型或E型						
Temp. range 温度范围	-50~250℃	-50~250℃	-50~400℃	-50~250℃	-50~400℃	-50~400℃	-50~400℃
Tolerance 精度	0℃ ≤ t ≤ 100℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃
	100℃ < t ≤ 200℃	±3.1℃	±3.1℃	±3.1℃	±3.1℃	±3.1℃	±3.1℃
	200℃ < t ≤ 300℃	±4.0℃ (≤250℃)	±4.0℃ (≤250℃)	±5.0℃	±4.0℃ (≤250℃)	±5.0℃	±5.0℃
	300℃ < t ≤ 400℃	-	-	±7.2℃	-	±7.2℃	±7.2℃
Response time 响应速度	2s 2秒						
Durability 耐久性	More than 50,000 contacts 5万回以上						
Magnetic attraction 磁力	700g	400g	400g	340g	340g	650g	
Guard material 头部材质	Teflon 铁氟龙	-	-	-	-	※6	
Body material 本体材质	Phenol resin 酚醛树脂	Teflon 铁氟龙	Polyimide 聚酰亚胺	Stainless(SUS303) 不锈钢		Sumika super 芳香醚	
Repair 修理	Repairable 可修理						

- ※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 available at 0℃ or above within the operating temperature on a stationary flat and smooth metal surface. 为测量0℃以上的静止光滑金属表面温度的精度。
- ※4 The response time is the time required to detect 99% of the true value on a stationary flat and smooth metal surface. 响应速度是指, 测量静止光滑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℃或者使用温度上限温度的光滑金属表面, 且保证测量结果在允许误差范围内能使用的次数。
- ※6 Glass cloth board with stainless steel cover 不锈钢外套强化玻璃

### How to order 如何选择

**MG - 13K - TS1 - ANP**

① ② ③ ④

① Head form and grip type 头部形状及握柄有无	11	□27×32mm -50 ~ 250℃ No grip 无握柄	
	13	□27×32mm -50 ~ 250℃ Standard grip 有握柄	
	21	φ14mm -50 ~ 250℃ No grip 无握柄	
	22	φ14mm -50 ~ 400℃ No grip 无握柄	
	23	φ14mm -50 ~ 250℃ Standard grip 有握柄	
	24	φ14mm -50 ~ 400℃ Standard grip 有握柄	
	33	φ8mm -50 ~ 250℃ Standard grip 有握柄	
	34	φ8mm -50 ~ 400℃ Standard grip 有握柄	
② Thermocouple type 热电偶型号	K	Chromel-Alumel	
	E	Chromel-Constantan	
	③ Cable type 导线型号	TS	φ2.3mm Silicone rubber insulated cable Max.240℃(MG-11, MG-13, MG-21, MG-23) 硅胶
		GW	1.2×1.7mm Glass fiber insulated cable Max.300℃(MG-22, MG-24, MG-62, MG-64) 玻璃纤维
TA※7		φ0.9mm Teflon insulated cable Max.200℃(MG-33) 铁氟龙	
④ Plug 插件型号	GX	0.9×1.3mm Glass fiber insulated cable Max.300℃(MG-34) 玻璃纤维	
	Cable length 导线长度	1	1m
		1.5	1.5m
		2	2m
		⋮	⋮
④ Plug 插件型号	ANP	Miniature plug	
	ASP	Anritsu standard plug	
	W	Without plug	
	WT3	Spade terminal for φ3mm	
	WT4	Spade terminal for φ4mm	
④ Plug 插件型号	WT5	Spade terminal for φ5mm	
	WC3	Ring terminal for φ3mm	
	WC4	Ring terminal for φ4mm	
④ Plug 插件型号	WC5	Ring terminal for φ5mm	

※7 The resistance value of the TA cable is 160Ω/m. Please note about source resistance of the thermometer. TA导线的电阻值为160Ω/m, 请确认温度计主机的电阻值。

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