

Model MW series

Moving Wire Probes



Temperature measurement of moving wire
测量移动钢丝温度

Model MW series probes are ideal for measuring the temperatures at the surface of moving wires.

MW系列适合测量移动中钢丝的温度。头部大小·滚轴形状(对应线径)等可自由选择。对应高温移动钢丝,也可以做订制品。

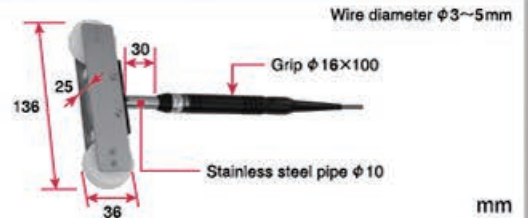
Typical probes of MW series 典型产品

Type K Model **MW-31K-TC1-ANP**
Type E Model **MW-31E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~250°C	±2.5°C (at 100°C surface)	5 s	S

Type K Model **MW-44K-TC1-ANP**
Type E Model **MW-44E-TC1-ANP**



Temp. range	Tolerance	Response time	Durability
-50~250°C	±2.5°C (at 100°C surface)	5 s	S

How to order of MW series 选型



MW-44K-TC1-ANP



① Head size (Wire diameter)
头部大小(对应线径)

MW-3* Wire diameter: $\phi 0.65\sim 3\text{mm}$









MW-4* Wire diameter: $\phi 3\sim 15\text{mm}$



① Head size (Wire diameter) 头部大小(对应线径)	3 : 71×25mm For $\phi 0.65\sim 3\text{mm}$ 4 : 136×25mm For $\phi 3\sim 15\text{mm}$
② Roller size (Wire diameter) 滚轮大小(对应线径)	1 : $\phi 0.65\sim 1\text{mm}$ 4 : $\phi 3\sim 5\text{mm}$ 2 : $\phi 1\sim 2\text{mm}$ 5 : $\phi 5\sim 10\text{mm}$ 3 : $\phi 2\sim 3\text{mm}$ 6 : $\phi 10\sim 15\text{mm}$
③ Thermocouple type 热电偶种类	K : Chromel-Alumel E : Chromel-Constantan
④ Cable type and length 导线种类与长度 (See page 9)	TC1 Standard specifications : 1m The cable length can be specified each 0.5m.
⑤ Plug 插头 (See page 8)	ANP (For AM-9***, HR-1*5*, AP-450, AR-650*) ASP (For HR-1*0*, AP-400) W (Without plug)

② Roller size (Wire diameter)
滚轮大小 (对应线径)

 $\phi 0.65 \sim 1 \text{ mm}$ MW-31	 $\phi 1 \sim 2 \text{ mm}$ MW-32	 $\phi 2 \sim 3 \text{ mm}$ MW-33
Head size : 71×25mm (MW-3*)		

 $\phi 3 \sim 5 \text{ mm}$ MW-44	 $\phi 5 \sim 10 \text{ mm}$ MW-45	 $\phi 10 \sim 15 \text{ mm}$ MW-46
Head size : 136×25mm (MW-4*)		

③ Thermocouple type
热电偶种类

※ Select the same type of thermocouple as thermometer.




K Type K	E Type E
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④ Cable type and length
导线种类和长度

Standard	Outer diameter	Heat resistant
TC1*	$\phi 4 \text{ mm}$	240°C

※ Standard specifications : 1m
The cable length can be specified each 0.5m.

⑤ Plug
插头

<p>ANP</p> <p>For AM-9*** HR-1*5* AP-450 AR-650*</p>	
<p>ASP</p> <p>For HR-1*0* AP-400</p>	
<p>W</p> <p>Without plug</p>	

Specifications of MW series 规格

Model number ^{※1}	MW-3*	MW-4*
Thermocouple type	Type K or E	
Temp. range ^{※2}	-50~250°C	
Tolerance ^{※3}	$0^\circ\text{C} \leq t \leq 200^\circ\text{C}$	$\pm 2.5^\circ\text{C}$
	$200^\circ\text{C} < t \leq 250^\circ\text{C}$	$\pm 3.0^\circ\text{C}$
Response time ^{※4}	5s	
Durability	S (Can not evaluate because of special-application)	
Roller material	Fluororesin	
Guard material	Fluororesin	
Roller setting plate material	Stainless (SUS304)	
Pipe material	Stainless (SUS316)	
Grip material	Polyacetal	

※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 0°C or above within the operating temperature on a stationary flat and smooth metal surface.

※4 The response time is the time required to detect 99% of the true value on a flat and smooth metal surface.