Model 5 series

High Superior Surface Probes

S模式系列

S模式系列产品是使用安立计器自己的独创技术,在测速、耐用性等各方面都具有极度高性能的温度感应器。备有静止表面用、微型表面用、移动表面用和自重 刑4和类刑。

通过组合各个规格的组件,可以按照客户的用途进行个性选配。

专利注册:日本,美国,英国,法国,德国

Model S series probes are high-performance temperature sensors developed using Anritsu Meter's full range of proprietary technologies to achieve the highest levels of response time and durability. These probes are available in four types: for stationary surfaces, for extremely small surfaces, for moving/rotating surfaces, and for self-supporting measurement.

Specific components may be combined to customize products for the needs of a customer's specific application.

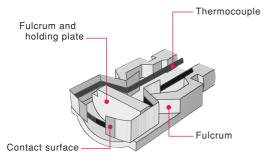
Patented in Japan, the United States, England, France, and Germany.

モデルSシリーズは安立計器独自の技術により、応答速度、耐久性を極めた 高性能の温度センサです。静止表面用、微小表面用、移動表面用、自重形 の4種類をご用意しています。

各パーツの仕様を組み合わせる事により、お客様の用途に合わせてカスタマイズする事が出来ます。

特許:日本、アメリカ、イギリス、フランス、ドイツ

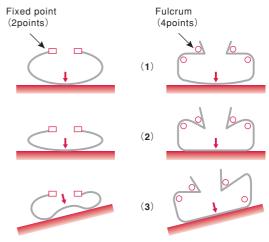
The greatest feature of Model S series is the four-fulcrum structure.



Right illustration represents the transformation of the contact strip in Model S series and traditional probe. Figure (2) of ideal contact condition is possible to measure the accurate temperature.

But, on condition of Figure (3) can not measure the accurate temperature because of transformation. Even if you repeated the measurement over and over times on conditions of $(1) \rightarrow (2) \rightarrow (3)$, Model S series is not transformed at all.

Transformation of a contact strip



" I mark point the position of junction

Accuracy, Test certificate

The traceability of temperature is administrated by the fixed point of temperature (ice point, boiling point of water, etc.), but it can not apply the rule in the surface temperature measurement. Anritsu Meter Co.,Ltd. established the original standard of surface temperature by development of the surface temperature calibration system. Model S series are attached the test certificate by this calibration system.

Durability

The greatest feature of Model S series is the four fulcrum structure. Model S series realize a extreme durability to the severe temperature measurement.

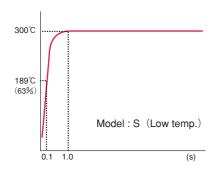
Model S series for the stationary surface

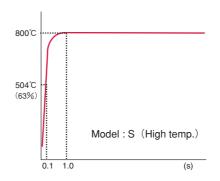
On the metallic surface at 300°C	more than 100,000 contacts
On the metallic surface at 800°C	more than 60,000 contacts

Model S series for the moving surface

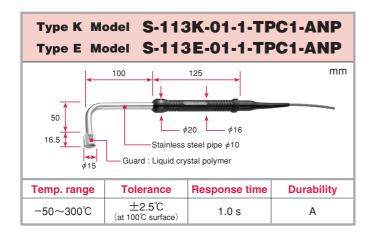
On the steel plate with smooth surface at 300°C and speed of 200m/min	more than 2000 hours	
On the steel plate with smooth surface at 600°C and speed of 200m/min	more than 1000 hours	

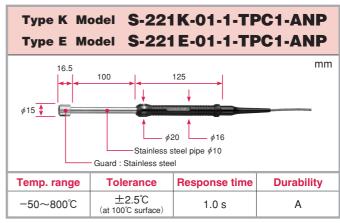
Response curve

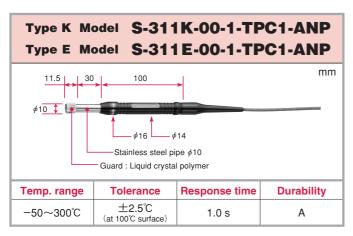


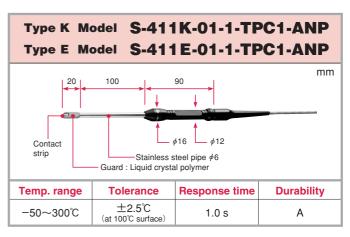


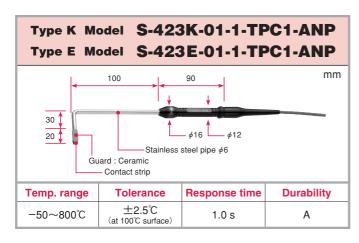
Typical probes of S series

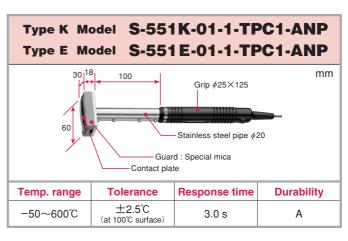


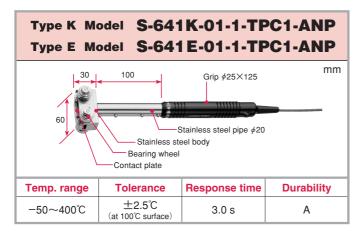


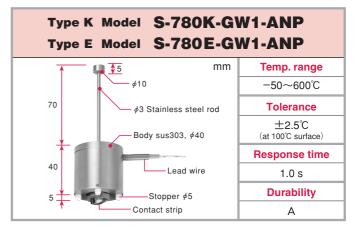




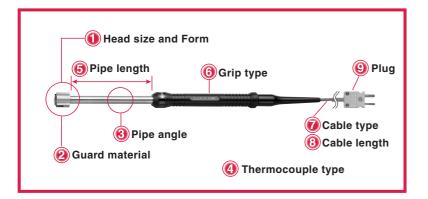






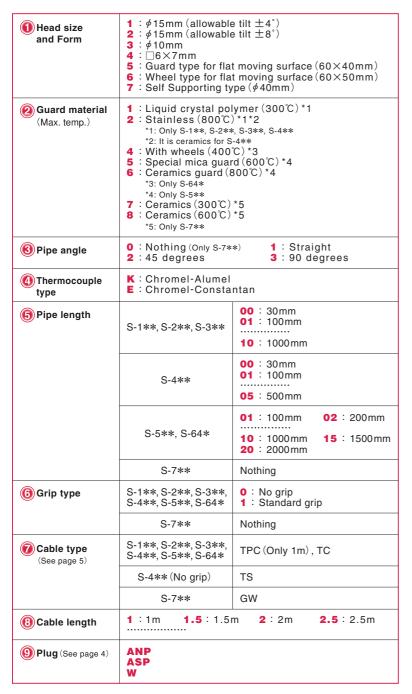


How to order of S series



S-121K-01-1-TPC1-ANP





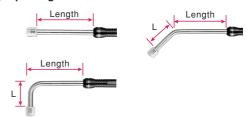
For moving surface 5: 6: 7: 8 Self supporting type

Pipe angle

You can choose pipe angle as below.



(6) Pipe length



The pipe height "L" is 50mm. (For S-1**, S-2**, S-3**) The pipe height "L" is 30mm. (For S-4**) The pipe height "L" is 110mm. (For S-5**, S-64*)

(6) Grip type

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

Specifications

Tolerance	±2.5°C (at 100°C surface)				
Response time	S-1**, S-2**, S-3**, S-4**, S-7**	1.0 s			
	S-5**, S-64*	3.0 s			
Durability rank	A				