

AW series High temperature Weldable strain gauge AW-6-350/AWCA-6-350/AWRA-6-350

This gauge has a high temperature strain gauge bonded on the Stainless steel base (Thickness: 0.08mm) with excellent corrosion resistance with heat curing adhesive. 2-axis and 3-axis types are also newly added to the lineup.

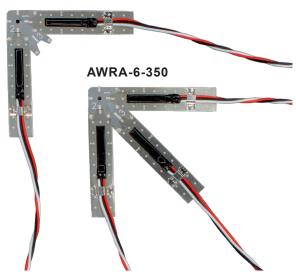
AW-6-350



Features

- Measurement in high temperatures up to 300°C
- Measurement of specimens to which adhesion does not apply
- Long-term measurement
- When a strain gauge rosette is applied, calculation of magnitudes and directions of principal strains (Rosette Analysis)

AWCA-6-350



Strain Gauge Characteristics

Туре	Gauge Length (mm)	Gauge base		Operating	Temperature	Test	Applicable coefficient	Resistance
		Dimension (mm)	Material	' '	compensation range	1.11	of linear thermal expansion	(Ω)
AW-6-350-11-4FB01LT	6	L24×W5						
AWCA-6-350-11-4FB01LT	6	L29×W29	SUS304	-196 ~ +300℃	+10 ∼ +100°C	Mild steel	11×10⁻⁶/℃	350
AWRA-6-350-11-4FB01LT	6	L29×W29						

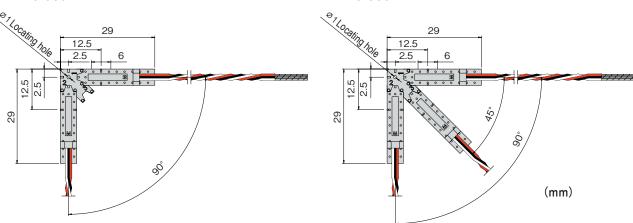
Leadwire Φ 0.2mm Twisted cross-linked fluorinated resin(PTFE) sheathed leadwire of 0.1m standard (Quarter bridge with 3-wire) * Lead wire lengths other than the standard length are available on request. (Made to order.) Minimum order quantity is 5 strain gauges.

AW-6-350



AWCA-6-350

AWRA-6-350



Tokyo Measuring Instruments Laboratory Co., Ltd.

Spot Welder W-50RC



W-50RC SPOT WELDERThis is a spot welder used for installing weldable strain gauges and fixing leadwires.

The welding energy is controlled in two ranges of 1~10 and 5~50 watt second. Its short welding pulse width of approximately 5 millisecond causes very little thermal damage on the material to be welded. The welding energy is not influenced by changes in the power source voltage owing to the adoption of stabilizing circuit. Electrical cables are stored inside the housing for convenience in field applications.

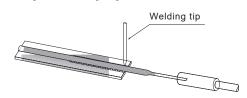
Specifications

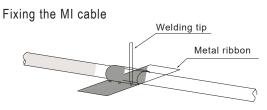
Welding energy	Two ranges of 1 to 10 watt second and 5 to 50 watt second (continuously variable) 60 watt second at maximum (AC110V 50Hz)			
Output voltage	Approx. 32 V at maximum			
Output pulse width	Approx. 5 millisecond			
Welding interval	2 welds/second at maximum (at 50 watt second)			
Continuous use time	Approx. 15 minutes (at 1 weld/second, 30 watt second, 23°C±5°C)			
Welding holder	Holder type III			
Welding force	4.9 to 19.6 N			
Welding tip	Fixing part Φ3 mm, Tip Φ1 mm			
Welding cable length	2m			
Environment	0 to 50°C, 85%RH or less (no condensation)			

Power supply Rated voltage Maximum power consumption	AC90 to 110V 50/60Hz or AC220V±10% 50/60Hz 550 VA peak (160 millisecond) 210 VA/ 2 times/second
Dimensions	300(W) × 200(H) ×195(D) mm (except projecting parts)
Weight	Approx. 13 kg
Standard accessories	
AC power cable Welding tip Electrode protection Abrasive paper(#40	

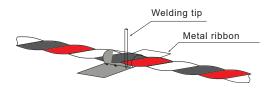
Installation example

Installing weldable gauges





Fixing of fluorocarbon resin coated leadwires



Related Products



Stainless steel ribbon Designed to fix cables

Size 5mm x 10m x 0.08mm 10mm x 10m x 0.08mm



Welding tips (W-50RDK)

Gauge mounter electrode



Approval Certificate **ISO9001**Design and manufacture of strain gauges, strain measuring equipment and transducers

The contents of this catalog are subject to change without prior notice. The contents of this catalog are as of October 2024. TML Pam E1025B





