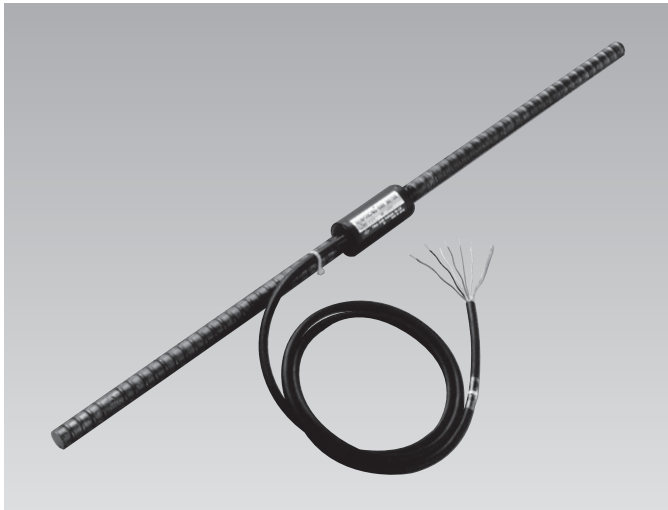


Stress of reinforcing bars arranged

KSAT-A Reinforcing Bar Meter

Civil engineering design



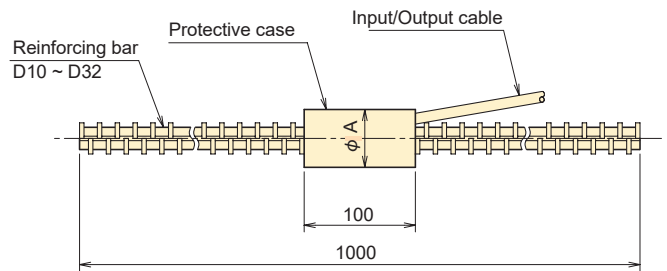
The KSAT-A are used to measure stress applied to structural reinforcing bars, and are normally welded at both ends to form part of the reinforcement arrangement. And the meters are with built-in temperature sensor, making possible simultaneous measurement of stress and temperature. The KSAT-A has a thermocouple that can be used to measure actual temperature.

Protection ratings: IP68 equivalent

Temperature measuring function to measure real temperature

Long-term stable measurement

Capable of measuring thermal stress



■ SPECIFICATIONS

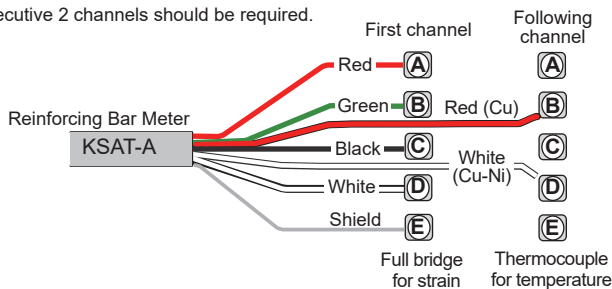
TYPE	φ A	Applical bar		Yield point
		Name	Class	
KSAT-10A	33	D10	SD345	345~440N/mm ²
KSAT-13A	36	D13		
KSAT-16A	42	D16		
KSAT-19A	47	D19		
KSAT-22A	47	D22		
KSAT-25A	53	D25		
KSAT-29A	53	D29		
KSAT-32A	62	D32		

Other bar with different size is available. Consult TML.

■ CONNECTION TO DATA LOGGER

KSAT-A with built-in thermocouple

Consecutive 2 channels should be required.



Stranded cables of Red, Green, Black and White to the first channel for strain measurement. Thermocouple of single core Red (Cu) and White (Cu-Ni) should be connected directly to the following channel for temperature measurement.

■ SPECIFICATIONS

TYPE	KSAT-10A	KSAT-13A	KSAT-16A	KSAT-19A	KSAT-22A	KSAT-25A	KSAT-29A	KSAT-32A
Capacity	300 N/mm ²							
Rated output	2.2mV/V (4400x10 ⁻⁶ strain)							
Non-linearity	1%RO							
Temperature sensor	KSA-A : Strain gauge 350Ω Quarter bridge with 3-wire (Approx. 50x10 ⁻⁶ strain/°C) in relative temperature KSAT-A : Thermocouple T in real temperature							
Allowable temperature range	-20 ~ +80°C							
Input/Output resistance	350Ω							
Recommended exciting voltage	6V or less							
Allowable exciting voltage	10V							
Weight	0.9 kg	1.3 kg	1.9 kg	2.6 kg	3.4 kg	4.3 kg	5.4 kg	6.6 kg

Input/Output cable :

KSAT-10A ~ 16A φ9mm 0.3mm² 4-core shielded T-thermocouple compound cable 2m

KSAT-19A ~ 32A φ11.5mm 0.5mm² 4-core shielded T-thermocouple compound cable 2m