

TEMPERATURE GAUGE series "TF"

Compatible adhesive & Operational temperature
 NP-50 : -20~+200°C
 C-1 : -20~+200°C CN : -20~+120°C

Operational temperature -20~+200°C

TEMPERATURE GAUGE

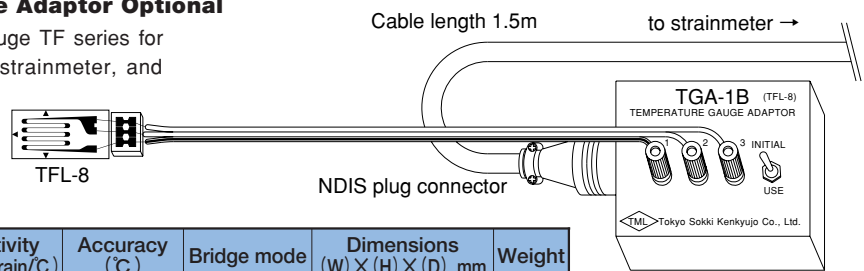
Gauge pattern	Type	Sensitivity (Ω/°C)	Gauge size		Backing		Resistance in Ω
			L	W	L	W	
This gauge is bonded on the specimen surface like as ordinary strain gauge for the measurement of surface temperature. It can measure not only relative temperature but also actual temperature by using optional temperature gauge adaptor (TGA) together.			L : length		W : width (Unit : mm)		
	TFL-2-60	0.34 approx.	2	1.9	6.1	3.5	60
	TFL-3-60	0.34 approx.	3	3.2	8.5	5.0	60
	TFL-6-60	0.34 approx.	6	2.6	13.0	4.5	60
	TFL-8	0.68 approx.	8	3.5	14.0	5.4	120

Leadwire-integral service is available on request.



TGA-1A/TGA-1B Temperature Gauge Adaptor Optional

This adaptor is provided with temperature gauge TF series for direct reading of temperature with optional strainmeter, and converts output to 100×10^{-6} strain/°C.



Type of Adaptor	Gauge	Temperature (°C)	Sensitivity ($\times 10^{-6}$ strain/°C)	Accuracy (°C)	Bridge mode	Dimensions (W) X (H) X (D) mm	Weight
TGA-1A	TFL-2-60	-20~+200°C	100	± 1 , or less	Full bridge	100 X 40 X 70	370g
	TFL-3-60						
	TFL-6-60						
TGA-1B	TFL-8	-20~+200°C	100	± 1 , or less	Full bridge	100 X 40 X 70	370g

Temperature gauge adaptor

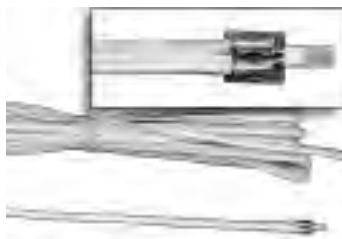
PLATINUM RTD

PLATINUM RTD (Pt100)

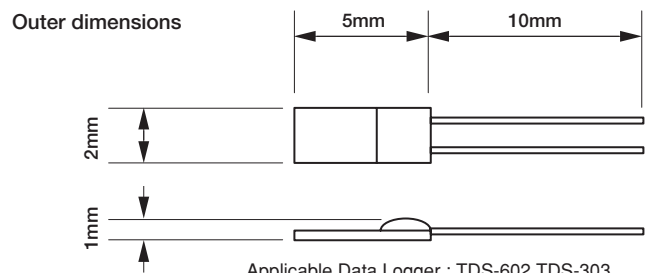
The platinum RTD is designed to mount on a specimen and connect to a data logger to measure temperature. Easy measurement of temperature by bonding to a specimen with strain gauge adhesive. Units equipped with lead wire are also available upon request.

Vinyl sheathed leadwire pre-attached

Fluorinated resin (PTFE) sheathed leadwire pre-attached available.



Type	Rated current	Base size (mm)	Resistance in Ω	Operational temperature (°C)
CRZ-2005	1mA or less	5.0 X 2.0 X 1.1	100 (at 0°C)	-50~+400



Applicable Data Logger : TDS-602, TDS-303

THERMOCOUPLE

A thermocouple configures the closed circuit in which a small electric current flow in the circuit composed of a pair of dissimilar conductors, and measures temperature using thermoelectric effect produced at both ends of conductors in different temperatures.

Type	Thermo-couple code	Core diameter	Outer diameter	Sheath materials	Sheath color			Heat-resistive temperature	Length per roll	Remarks
					Insulator		Outer sheath			
					+	-				
0.32 X 1P T-G	T	0.32mm	2.1 X 3.2	Heat-resistive vinyl	Red	White	Brown	100°C approx.	100m	
0.65 X 1P T-G	T	0.65mm	2.6 X 4.0	Heat-resistive vinyl	Red	White	Brown	100°C approx.	100m	
0.32 X 1P T-6F	T	0.32mm	1.0 X 1.6	Fluoroethylene propylene	Red	White	Brown	200°C approx.	100m	
0.65 X 1P T-6F	T	0.65mm	1.5 X 2.5	Fluoroethylene propylene	Red	White	Brown	200°C approx.	100m	
0.65 X 1P T-GS	T	0.65mm	φ 7.2	Heat-resistive vinyl	Red	White	Brown	100°C approx.	100m	shielded
0.32 X 1P K-H	K	0.32mm	1.4 X 2.3	Glass	Red	White	Blue	350°C approx.	100m	
0.65 X 1P K-H	K	0.65mm	2.0 X 3.4	Glass	Red	White	Blue	350°C approx.	100m	