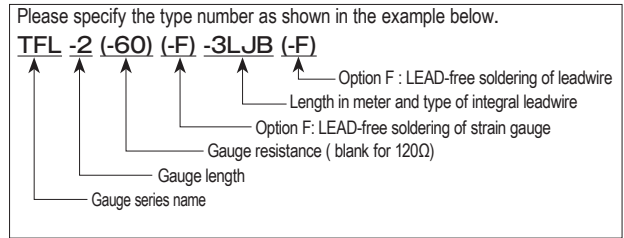




Temperature Gauges TF series

These gauges are bonded on the specimen surface like ordinary strain gauges, and measure the surface temperature. By combining with the dedicated temperature gauge adapter (TGA-1A or TGA-1B), actual temperature can be measured easily using a strainmeter.

Operating temperature range -20~+200°C	Applicable adhesives
	NP-50B -20~+200°C
	C-1 -20~+200°C
	CN -20~+120°C



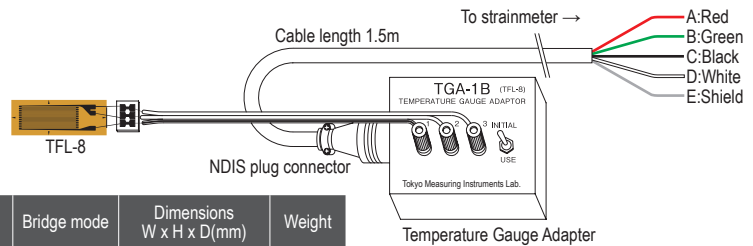
Gauge pattern	Type	Sensitivity (Ω/°C)	Gauge size(mm)		Backing size(mm)		Resistance Ω
			Length	Width	Length	Width	
TFL-2-60	TFL-2-60	0.34 approx.	2	1.9	6.1	3.5	60
TFL-3-60	TFL-3-60	0.34 approx.	3	3.2	8.5	5	60
TFL-6-60	TFL-6-60	0.34 approx.	6	2.6	12.4	4.5	60
TFL-8	TFL-8	0.68 approx.	8	3.5	14	5.5	120

Minimum order quantity is 10 gauges.
These gauges are available with integral leadwires attached. (made to order)

TGA-1A/TGA-1B Temperature Gauge Adapter

This adapter is used with temperature gauges TF series for direct reading of temperature with a strainmeter, and converts output to 100×10^{-6} strain/°C.

Minimum order quantity is 1.



Type of adapter	Applicable gauge	Temperature °C	Sensitivity (x10 ⁻⁶ strain/°C)	Accuracy (°C)	Bridge mode	Dimensions W x H x D(mm)	Weight
TGA-1A	TFL-2-60 TFL-3-60 TFL-6-60	-20~+200	100	±1 or less	Full bridge	100×40×70	370g
TGA-1B	TFL-8	-20~+200	100	±1 or less	Full bridge	100×40×70	370g



Platinum RTD / Thermocouple

PLATINUM RTD

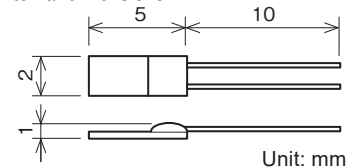
PLATINUM RTD (Pt 100)

The Platinum RTD is mounted on a specimen and connected to a Data logger(TDS-630/-540/-150,TC-32K etc.) to measure temperature. Easy measurement of temperature by bonding to specimen with strain gauge adhesive. Units equipped with leadwire are also available upon request.

Type	Rated current	Base size (mm)	Resistance	Operating temperature
CRZ-2005	1mA or less	5.0×2.0×1.1	100Ω (at 0°C)	-40~+400 °C

Minimum order quantity is 10.

External dimensions



THERMOCOUPLE

A thermocouple configures the closed circuit in which a small electric current flows 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	Core diameter (mm)	Outer dimension (mm)	Sheath materials	Sheath color			Heat-resistive temperature (°C)	Length per roll (m)	Remarks
					Insulator		Outer sheath			
					+	-				
T-G-0.32	T	0.32	2.1×3.2	Heat-resistive vinyl	Red	White	Brown	approx.100	100	
T-G-0.65	T	0.65	2.6×4.0	Heat-resistive vinyl	Red	White	Brown	approx.100	100	
T-6F-0.32	T	0.32	1.0×1.6	Fluoroethylene propylene	Red	White	Brown	approx.200	100	
T-6F-0.65	T	0.65	1.5×2.5	Fluoroethylene propylene	Red	White	Brown	approx.200	100	
T-GS-0.65	T	0.65	Φ7.2	Heat-resistive vinyl	Red	White	Brown	approx.100	100	Shielded
K-H-0.32	K	0.32	1.4×2.3	Glass fiber	Red	White	Blue	approx.350	100	
K-H-0.65	K	0.65	2.0×3.4	Glass fiber	Red	White	Blue	approx.350	100	