TEMPERATURE GAUGES series TF

Operating temperature range

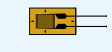
–20°C ——— +200°C

Applicable adhesives

NP-50B	–30 ~ +200°C
C-1	–60 ~ +200°C
CN	–60 ~ +120°C

TEMPERATURE GAUGES

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



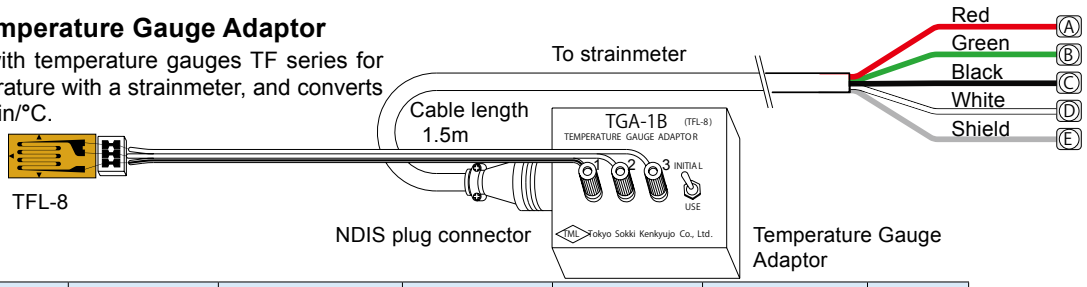
TFL-2-60

TFL-8

Gauge pattern	Basic type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance Ω
	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	60
	TFL-6-60	0.34 approx.	6	2.6	13	4.5	60
	TFL-8	0.68 approx.	8	3.5	14	5.4	120

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

This adaptor is used with temperature gauges TF series for direct reading of temperature with a strainmeter, and converts output to 100x10^{-6} strain/°C.



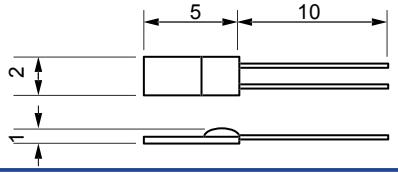
Type of Adaptor	Applicable gauge	Temperature °C	Sensitivity (x10^{-6} strain/°C)	Accuracy (°C)	Bridge mode	Dimensions W x H x D(mm)	Weight
TGA-1A	TFL-2-60	-20~+200	100	±1 or less	Full bridge	100 x40 x 70	370g
	TFL-3-60						
	TFL-6-60						
TGA-1B	TFL-8	-20~+200	100	±1 or less	Full bridge	100 x40 x 70	370g

PLATINUM RTD

PLATINUM RTD (Pt 100)

The Platinum RTD is mounted on a specimen and connect to a data logger 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	5x2x1.1	100Ω (at 0°C)	-40 ~ +400°C



Unit: mm

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: Insulator +	Sheath color: Insulator –	Sheath color: Outer sheath	Heat-resistive temperature (°C)	Length per roll (m)	Remarks
T-G-0.32	T	0.32	2.1x3.2	Heat-resistive vinyl	Red	White	Brown	approx.100	100	
T-G0.65	T	0.65	2.6x4.0	Heat-resistive vinyl	Red	White	Brown	approx.100	100	
T-6F-0.32	T	0.32	1.0x1.6	Fluoroethylene propylene	Red	White	Brown	approx.200	100	
T-6F-0.65	T	0.65	1.5x2.5	Fluoroethylene propylene	Red	White	Brown	approx.200	100	
T-GS-0.65	T	0.65	ϕ 7.2	Heat-resistive vinyl	Red	White	Brown	approx.100	100	Shielded
K-H-0.32	K	0.32	1.4x2.3	Glass fiber	Red	White	Blue	approx.350	100	
K-H-0.65	K	0.65	2.0x3.4	Glass fiber	Red	White	Blue	approx.350	100	