

# BOLT STRAIN GAUGE series "BTM"

Compatible adhesive & Operational temperature  
A-2 : -10~+80°C

Operational temperature -10~+80°C



## BOLT AXIAL STRAIN MEASUREMENT

Gauge pattern	Type	Gauge size		Backing		Resistance in $\Omega$
		L	W	L	W	
<p>These gauges are used for measurement of tensile strain of bolt. These are simply inserted into a pre-drilled hole in the bolt head together with A-2 bonding adhesive and cured. The gauge series is recommendable if an ordinary strain gauge cannot be mounted on the bolt surface. Accurate tensile force measurement is possible by calibrating the bolt after installing the gauge.</p> <p>●Single-element</p>		L : length		W : width (Unit : mm)		
	BTM-1C (Hole drilled : $\phi$ 1.6mm)	1	0.7	5.6	1.4	120
	BTM-6C (Hole drilled : $\phi$ 2.0mm)	6	1.0	12.0	1.7	120
	Temperature-integrated BTM-6CTB applicable in -10~+80°C (Hole drilled : $\phi$ 2.0mm)	6	1.0	12.0	1.7	120

Gauge leads  
 Polyurethane (Cu)  $\phi$ 0.14 80mm to BTM-6C/BTM-1C  
 Polyurethane (Cu)  $\phi$ 0.14 80mm to BTM-6CTB  
 Polyester (Cu-Ni)  $\phi$ 0.12 80mm to BTM-6CTB

NB: Polyurethane sheath of the gauge leads is easily removed by heat of soldering iron, while Polyester sheath is by chemical removal solvent.

Not actual size shown

N.B.: For extension, exclusive leadwire should be required.

■ Syringe optional

Exclusive syringe for injecting A-2 adhesive into the pre-drilled hole before BTM-1C or BTM-6C gauge is embedded

■ Single element

※Applicable hole diameter in bolt specimen:  $\phi$  2mm