series FAC **CRACK DETECTION** GAUGES

Operating temperature range

–30°C 🤇 +80°C

Gauge pattern

Applicable adhesives

CN	−30 ~ +80°C
RP-2	-30 ~ +80°C

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CRACK PROPAGATION MEASUREMENTS

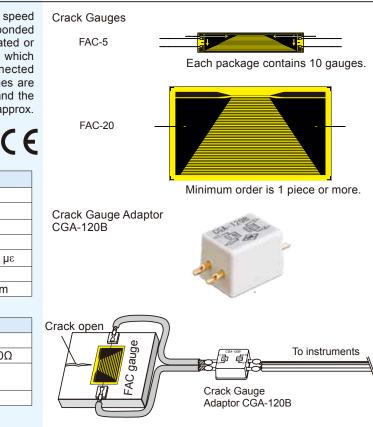
These gauges are designed to measure the propagation speed of fatigue crack in a metal specimen. The gauges are bonded with an adhesive on the position where the crack is initiated or the crack initiation is expected. The grids of the gauges, which are aligned at interval of 0.1mm or 0.5mm, are disconnected one by one with the propagation of the crack. The gauges are used together with the crack gauge adaptor CGA-120B, and the disconnection of one grid is measured as the change of approx. 45 or 40×10⁻⁶ strain by a strainmeter.

CRACK CALICES

Dimension

Weight

CRACK GAUGES				
Gauge type	FAC-5	FAC-20		
Measuring range	4.5mm	20mm		
Gauge resistance	approx. 1Ω			
Grid interval	0.1mm	0.5mm		
Number of grids	46	41		
Output per grid	approx. 45 με	approx. 40 με		
Operating temperature	-30 ~ +80°C			
Backing size	28 x 5mm	43 x 25mm		
Crack Gauge Adaptor CGA-120B				
Measuring point	1			
Allowable temperature	-30 ~ +80°C			
Bridge connection	Quarter bridge 3-wire method 120Ω			
Dimension	20(W) x 15(H) x 15(D) mm			



STRESS GAUGES series

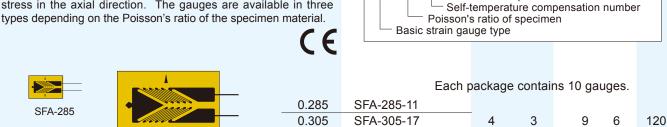
(except projection parts)

5g



Poisson's ratio Gauge pattern Basic type W of specimen These gauges are intended to measure the stress in an optional direction of the specimen in plane stress field. The gauges are sensitive not only in these axial direction but also in the transverse Example of type number designation direction, and the sensitivity ratio of the transverse direction to the axial directions is equal to the Poisson's ratio of the specimen <u>SFA -285 -11 -3LJC-F</u> material. In addition, the gauges are not sensitive to the shearing Length in meter and type of leadwire CE compliant strain. Accordingly, the output of the gauges is proportional to the stress in the axial direction. The gauges are available in three

(x 3)



SFA-330-23

Tokyo Sokki Kenkyujo

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