



## General-purpose Foil Strain Gages

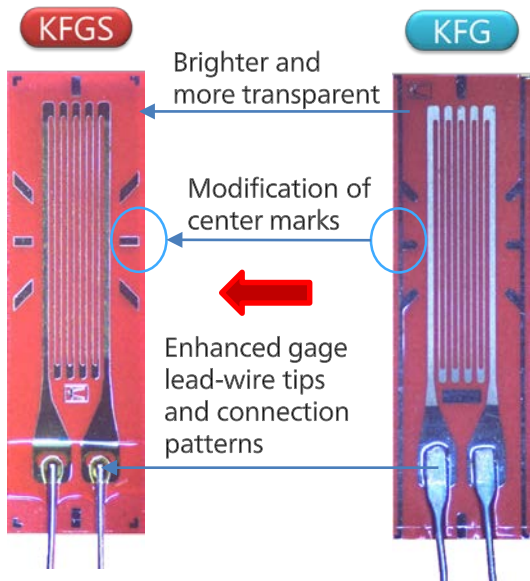
# KFGS series NEW

## New strain gages with the world highest level performance

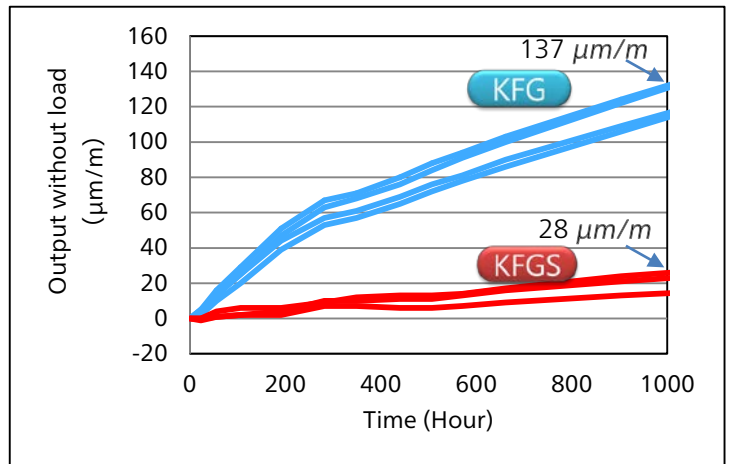
- CE compliant
  - All models are RoHS compliant
- Improved quality
  - Excellent long-term stability, repeatability, and reliability
- Improving for affixing work
  - Modification of center marks
  - Brighter and more transparent
  - Improved flexibility
- New package
  - Every gage packaged separately
  - Substantial information on package

### What's new?

#### Improved Pattern

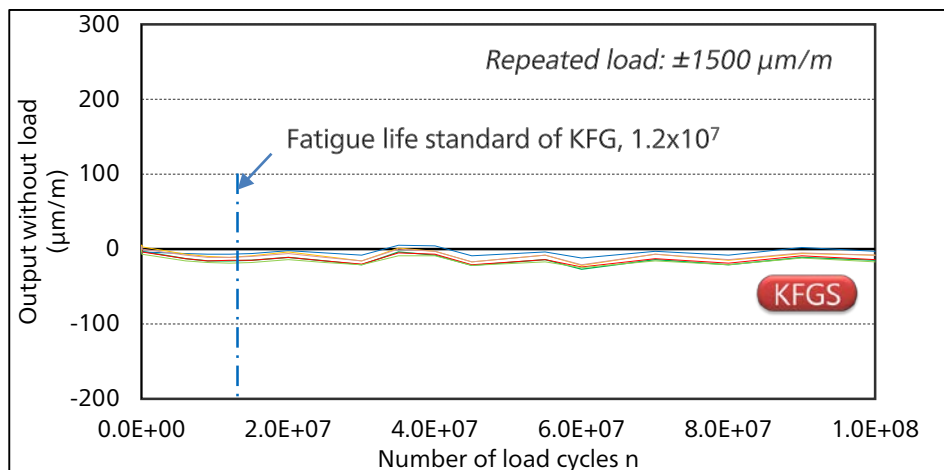


#### Excellent long-term stability

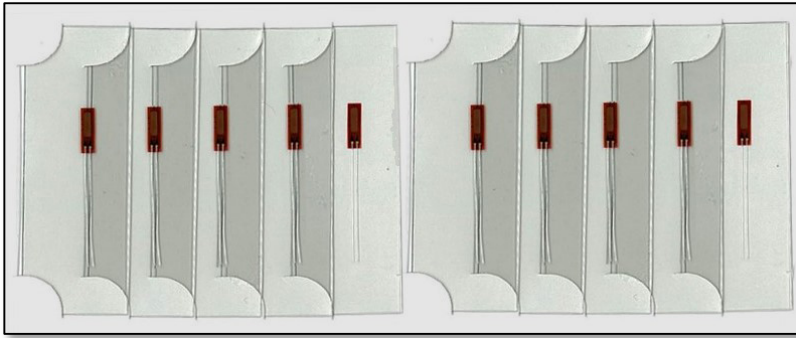


Accelerated test under 85°C and 85%RH, equivalent to 20 years long test under normal testing environment.

#### Excellent repeatability and reliability



Individual packing for every single gage



Product information on package (Front)

Symbolized gage pattern    Transverse sensitivity    CE marking (RoHS compliant)

<b>KYOWA</b>		MADE IN JAPAN	
Model 型式	<b>KFGS-5-120-C1-11</b>	Lot No. Y3730M	Quantity 数量 10
		Batch No. 000A	
Gage Factor (23°C, 50%RH) ゲージ率	2.10 ± 1.0%	Temperature Compensation for 適合材料	STEEL
Gage Length ゲージ長	5mm	Adoptable Thermal Expansion 適合線膨張係数	11.7 × 10 <sup>-6</sup> /°C
Gage Resistance (23°C, 50%RH) ゲージ抵抗	119.8Ω ± 0.2%	Applicable Adhesive 主な適用接着剤	CC-33A, EP-340
Transverse Sensitivity Ratio (23°C, 50%RH) 横感度比	0.1 ± 0.1%	Temperature Coefficient of Gage Factor ゲージ率の温度係数	Refer to Graph グラフ参照
Thermal Output 熱出力	Refer to Graph グラフ参照		共和品-1437
<b>KYOWA STRAIN GAGES</b>		W01	
		EN50581:2012	

Product information on package (Rear)

Thermal Output and Temperature Coefficient of Gage Factor  
温度によるゲージの熱出力とゲージ率の温度係数

Based on Instrument G.F. of 2.00/ゲージ率設定2.00

The thermal output includes the characteristics of the following gage leads. For the strain gage with pre-attached leads, you should add the temperature effect on lead wires to the above equation.

熱出力は右記ゲージリードを含んだ状態での特性です。リード線付ゲージの場合は右式にリード線の温度影響分が加わります。

Test Conditions / 試験条件

Model 型式	KFGS-5-120-C1-11
Lot No. ロット番号	Y3730M
Adhesive 接着剤	PC-600
Tested on 試験片材質	SS400(11.7 × 10 <sup>-6</sup> /°C)
Gage Lead ゲージリード	φ0.16 × 25mm Silver-clad copper wires 銀クラッド銅線

Graph Data / グラフデータ

Thermal Output / 熱出力 (T: Temperature / 温度 [°C])

= -0.3720 × 10<sup>2</sup> + 0.2852 × 10<sup>1</sup> × T<sup>1</sup>  
 - 0.5525 × 10<sup>3</sup> × T<sup>2</sup> + 0.2888 × 10<sup>3</sup> × T<sup>3</sup>  
 - 0.3236 × 10<sup>4</sup> × T<sup>4</sup> (μm/m)

Tolerance / 許容差 ±0.85(μm/m)/°C

Temperature Coefficient of Gage Factor  
ゲージ率の温度係数 0.8 ± 0.5(%/100°C)

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**Safety Precautions**

Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

• Specifications are subject to change without notice for improvement.  
 E\_H28-8b



JQA-0821  
 JQA-EM4824

Manufacture's Representative