High-temperature Gages (KFU & KH)

●KFU Series High-temperature Foil Strain Gages (350°C)

RoHS

The base is made of highly heat-resistant polyimide and the gage element is made of NiCr alloy foil, thereby letting the KFU series gage exhibit superior characteristics over a wide temperature range.

*Please use KFU for short period testing.
E.g. 72 hours or less at 350 °C, 360 hours or less at 300 °C,
adhesive PI-32 (It changes depending on the condition.)

Applicable Adhesives

	Operating Temp. after Curing the Adhesive
PI-32	–30 to 350°C

When ordering, suffix the lead-wire cable code (see table at the right) to the model number with a space in between.

E.g.
For the gage with a high/low-temperature 3-wire cable 5 m long pre-attached
→ KFU-5-120-C1-11 H5M3

If no lead-wire cable code is suffixed, the gage is delivered with an advance ribbon cable only (25 mm long).

■Types, lengths and codes of lead-wire cables pre-attached to KFU gages

Type / Length	High/low-temp. 3-wire cable
	C1, D16, and D17
15 cm	H15C3
30 cm	H30C3
1 m	H1M3
3 m	H3M3
5 m	H5M3
Operating temp.	-30 to 350°C
Remarks	L-17

＊For other lead-wire cable lengths, contact us.

These KFU series gages are also available with the gage resistance of 350Ω.
The size is slightly different from 120Ω gages.

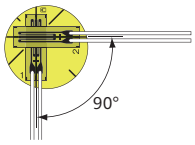
Uniaxial

Resistance: 120 Ω
Gage factor: Approx. 1.85 (At 350 °C)

Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm) Gage (Grid) Length	Gage (Grid) Width	Base Length	Base Width	Remarks
Uniaxial	KFU-5-120-C1-11	5	2.5	10	3.7	
	KFU-5-120-C1-16					
	KFU-5-120-C1-23					
	KFU-2-120-C1-11	2	2.5	6	3.7	
	KFU-2-120-C1-16					
	KFU-2-120-C1-23					

Biaxial, 0°/90° stacked rosette

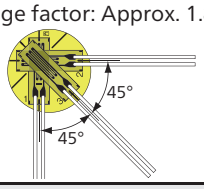
Resistance: 120 Ω
Gage factor: Approx. 1.85 (At 350 °C)



Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm) Gage (Grid) Length	Gage (Grid) Width	Base Length	Base Width	Remarks
Biaxial, 0°/90° stacked rosette	KFU-5-120-D16-11	5	1.4	ϕ11		
	KFU-5-120-D16-16					
	KFU-5-120-D16-23					
	KFU-2-120-D16-11	2	1.2	ϕ8		
	KFU-2-120-D16-16					
	KFU-2-120-D16-23					

Triaxial, 0°/90°/45° stacked rosette

Resistance: 120 Ω
Gage factor: Approx. 1.85 (At 350 °C)



Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm) Gage (Grid) Length	Gage (Grid) Width	Base Length	Base Width	Remarks
Triaxial, 0°/90°/45° stacked rosette	KFU-5-120-D17-11	5	1.4	ϕ11		
	KFU-5-120-D17-16					
	KFU-5-120-D17-23					
	KFU-2-120-D17-11	2	1.2	ϕ8		
	KFU-2-120-D17-16					
	KFU-2-120-D17-23					

●KH Series High-temperature Foil Strain Gages (350°C)

The metal base enables easy mounting with a compact spot welder.

Installation Method

	Operating Temp. after Curing the Adhesive
Spot welding	–50 to 350°C

Operating time (Depends on usage conditions)
24 hours or less at 350°C
72 hours or less at 300°C

When ordering, suffix the lead-wire cable code (see table at the right) to the model number with a space in between.

E.g.
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached
→ KH-5-350-G4-11 D5M3

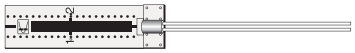
■Types, lengths and codes of lead-wire cables pre-attached to KH gages

Type / Length	Glass-coated Ni-plated 3-wire copper cable
	G4
15 cm	D15C3
30 cm	D30C3
1 m	D1M3
3 m	D3M3
5 m	D5M3
Operating temp.	-50 to 350°C

＊For other lead-wire cable lengths, contact us.

Uniaxial

Resistance: 350 Ω
Gage factor: Approx. 2.0 (At 350 °C)



If no lead-wire cable code is suffixed, the gage is delivered with an advance ribbon cable only (25 mm long).

Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm) Gage (Grid) Length	Gage (Grid) Width	Base Length	Base Width	Remarks
Uniaxial	KH-5-350-G4-11	5	1	30	8	5 gages/ pkg
	KH-5-350-G4-16					

10 gages/ pkg unless otherwise specified.

Strain Gages
Outline
Lead-wire cable
General
Waterproof
Concrete
Composite material PCB Plastics
Ultra-small strain High temp. Low temp.
High elongation
Non-magnetoresistive
Hydrogen gas Bending
With protector Embedded
Crack
Adhesive Coating agent
Custom-designed