

High-temperature Foil Strain Gages (350°C)

These strain gages use a polyimide resin with a high temperature resistance as the base, and Ni-Cr alloy foil for the resistive element. They demonstrate superior characteristics over a wide temperature range.

Operating Temperature

Operating Temperature	Applicable Adhesives
-30 to 350°C	PI-32

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

Gage factor (Reference value at 350°C): Approx. 1.85

Models

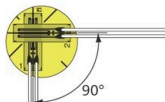
Patterns, Gage Resistance, Gage Factor	Model	Dimensions (mm)				Remarks
		Gage (Grid)		Base		
		Length	Width	Length	Width	
Uniaxial Resistance: 120 Ω Gage factor: Approx. 2.0	KFU-5-120-C1-11	5	2.5	10	3.7	
	KFU-5-120-C1-16	5	2.5	10	3.7	
	KFU-5-120-C1-23	5	2.5	10	3.7	
	KFU-2-120-C1-11	2	2.5	6	3.7	
	KFU-2-120-C1-16	2	2.5	6	3.7	
	KFU-2-120-C1-23	2	2.5	6	3.7	



*The above picture is KFU-5-120-C1-11.

Biaxial, stacked rosette

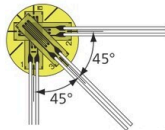
Resistance: 120 Ω Gage factor: Approx. 2.0



*The above picture is KFU-5-120-D16-11.

Triaxial, stacked rosette

Resistance: 120 Ω Gage factor: Approx. 2.0



*The above picture is KFU-5-120-D17-11.

Uniaxial, 350 Ω

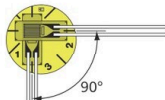
Resistance: 350 Ω Gage factor: Approx. 2.0



*The above picture is KFU-5-350-C1-11.

Biaxial, stacked rosette 350 Ω

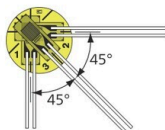
Resistance: 350 Ω Gage factor: Approx. 2.0



*The above picture is KFU-2-350-D16-11.

Triaxial, stacked rosette 350 Ω

Resistance: 350 Ω Gage factor: Approx. 2.0



*The above picture is KFU-2-350-D17-11.

KFU-5-120-D16-11	5	1.4	φ11	
KFU-5-120-D16-16	5	1.4	φ11	
KFU-5-120-D16-23	5	1.4	φ11	
KFU-2-120-D16-11	2	1.2	φ8	
KFU-2-120-D16-16	2	1.2	φ8	
KFU-2-120-D16-23	2	1.2	φ8	

KFU-5-120-D17-11	5	1.4	φ11	
KFU-5-120-D17-16	5	1.4	φ11	
KFU-5-120-D17-23	5	1.4	φ11	
KFU-2-120-D17-11	2	1.2	φ8	
KFU-2-120-D17-16	2	1.2	φ8	
KFU-2-120-D17-23	2	1.2	φ8	

KFU-5-350-C1-11	5	2.4	10	3.7	
KFU-5-350-C1-16	5	2.4	10	3.7	
KFU-5-350-C1-23	5	2.4	10	3.7	
KFU-2-350-C1-11	2	2.4	6	3.7	
KFU-2-350-C1-16	2	2.4	6	3.7	
KFU-2-350-C1-23	2	2.4	6	3.7	

KFU-5-350-D16-11	5	2	φ11	
KFU-5-350-D16-16	5	2	φ11	
KFU-5-350-D16-23	5	2	φ11	
KFU-2-350-D16-11	2	2	φ10	
KFU-2-350-D16-16	2	2	φ10	
KFU-2-350-D16-23	2	2	φ10	

KFU-5-350-D17-11	5	2	φ11	
KFU-5-350-D17-16	5	2	φ11	
KFU-5-350-D17-23	5	2	φ11	
KFU-2-350-D17-11	2	2	φ10	
KFU-2-350-D17-16	2	2	φ10	
KFU-2-350-D17-23	2	2	φ10	

Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor

Types, lengths and codes of lead-wire cables pre-attached to KFV

	High-temp. 3-wire cable
	C1,D16,D17
15 cm	E15C3
30 cm	E30C3
1 m	E1M3
3 m	E3M3
5 m	E5M3
Operating Temperature	0 to 350°C
Remarks	L-18 ^{*1}

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

*1 The wire section of E-type is sandwiched or wrapped with the glass-cloth tape for insulation and reinforcement. (Refer to P.1-49)

How to order

When ordering, specify the model of the strain gage and the code of the lead-wire cable with a space in between.

E.g. KFV-5-120-C1-11 with a high-temp. 3-wire cable 5 m long pre-attached→ **KFV-5-120-C1-11 E5M3**

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

*10 gages/pkg

KFV

RoHS

Foil Strain Gage for Hydrogen Gas Environment

These foil strain gages are capable of obtaining stable strain measurements in high-pressure hydrogen gas environments with less change in electrical resistance due to hydrogen, compared with conventional foil strain gages.

Operating Temperature

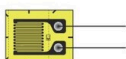
Operating Temperature	Applicable Adhesives
-30 to 80°C	PC-600

Models

Patterns, Gage Resistance, Gage Factor	Model	Dimensions (mm)				Remarks
		Gage (Grid)		Base		
		Length	Width	Length	Width	
	KFV-2-350-C1	2	3.2	6	5	

Uniaxial

Resistance: 350 Ω Gage factor: Approx. 2.5



How to order

*Polyester-coated copper wires 15 mm long. Dedicated gage terminals (optional accessories) and dedicated lead wires (optional accessories) are available. For the optional accessories, please contact us.

*To use the products safely, you must fill out the "KFV Environment Check Sheet" and "OUR CONSENT IN RELATION WITH THE USE OF PARTICULAR STRAIN GAGE".

*2 gages/pkg