STRAIN GAGES

Strain Gages	
Juan dages	

Lead-wire cable

Outline

General

Waterproof

Concrete

Composite material PCB Plastics

Ultra-small strain High temp. Low temp.

High elongation

Nonmagnetoresistive

.

Hydrogen gas Bending

With protector Embedded

Crack

Adhesive Coating agent

> Customdesigned

High-temperature Gages (KFU & KH)

Patterns,				Dimensions (mm)			
Gage Resistance, Gage Factor	Models		Gage Length		Base Length \	-	Remarks
•KFU Series High-temp	erature	Foil Strain Ga			-	I	
	The base is i	made of highly heat-	-resistant	t polyin	nide and 1	the ga	ge element is
RoHS		Cr alloy foil, thereby ics over a wide tempe			series ga	ge exh	nibit superior
When ordering, suffix the lead-wire	E.g. 72 hours adhesive	EU for short period testir or less at 350 °C, 360 ho PI-32 (It changes dependir	urs or less	at 300 °(andition)	С,		
cable code (see table at the right)	Applicable	Adhesives	ig on the et	, , , , , , , , , , , , , , , , , , , ,			
to the model number with a space in between.		Operating Temp. after Curing the Adhesive					
In between.	PI-32	-30 to 35				ll.	
E.g.		ngths and codes of I			·	acheu	IO KFU gage
For the gage with a high/low-temperature	Type High/low-temp. 3-wire cable Length C1, D16, and D17						
3-wire cable 5 m long pre-attached \rightarrow KFU-5-120-C1-11 H5M3	15 cm			H15C3			
~ KF0-5-120-C1-11 H51015	30 cm			H30C3			
If no lead-wire cable code is suffixed,	1 m 3 m			H1M3 H3M3			
the gage is delivered with an advance	5 m			H5M3			
ribbon cable only (25 mm long).	Operating temp. Remarks		-3() to 350° L-17	°C		
		lead-wire cable le	ngths, c		t us.		
	These KFU ser	ies gages are also availa	able with	the gage	e resistance	e of 350)Ω.
Uniaxial	KFU-5-12	htly different from 120	Ω gages.				
Resistance: 120 Ω	KFU-5-120		5	2.5	10	3.7	
Gage factor: Approx. 1.85 (At 350 °C)	KFU-5-120	0-C1-23					
	KFU-2-120		_				
	KFU-2-120 KFU-2-120		2	2.5	6	3.7	
Biaxial, 0°/90° stacked ro		0-01-23					
Resistance: 120 Ω	These KFU ser	ries gages are also availa		the gage	e resistance	e of 350)Ω.
Gage factor: Approx. 1.85 (At 350 °C)	5	htly different from 120	Ω gages.				
	KFU-5-120 KFU-5-120		5	1.4	φ11		
	KFU-5-120		5	1.4	ψΠ		
	KFU-2-120						
90°	KFU-2-120		2	1.2	φ8		
	KFU-2-120						
Triaxial, 0°/90°/45° stack Resistance: 120 Ω	Ced roset	te ies gages are also availa	ahlowith	the asa	o rosistan <i>c</i> i	a of 350	0
Gage factor: Approx. 1.85 (At 350 °C)		htly different from 120		the gage	eresistarie	01330	
	KFU-5-120		_				
	KFU-5-120		5	1.4	¢11		
45	KFU-5-120 KFU-2-120						
45°	KFU-2-120		2	1.2	φ8		
	KFU-2-120						
			D	imensio	ons (mm)		
Patterns, Gage Resistance, Gage Factor		Models	Gage		Base	e	Remarks
Gage Resistance, Gage Factor					Length \	Nidth	
•KH Series High-tempe	rature F	oil Strain Ga	aes (3	350°	C)		
When ordering, suffix the lead-wire	The metal ba	ase enables easy mou				ot weld	der.
cable code (see table at the right)	Installation		<i>t</i>				
to the model number with a space in between.	Spot weldi	Operating Temp.	after Curir 50 to 350°C		Ihesive		
E.g.	Operating –50 to 350 C						
	Operating tin	ne (Depends on usage d	onarciona				
For the gage with a glass-coated	24 hours or le	ess at 350°C	onurrons				
	24 hours or le 72 hours or le	ess at 350°C ess at 300°C			es pre-att	ached	l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached	24 hours or le 72 hours or le	ess at 350°C ess at 300°C esths and codes of	lead-wir	e cable	es pre-ati		l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached → KH-5-350-G4-11 D5M3	24 hours or le 72 hours or le Types, ler Type Length	ess at 350°C ess at 300°C esths and codes of	lead-wir oated Ni-p	e cable lated 3-w G4			l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached → KH-5-350-G4-11 D5M3 Uniaxial	24 hours or le 72 hours or le Types, ler Length 15 cm	ess at 350°C ess at 300°C ngths and codes of	lead-wir oated Ni-p	e cable lated 3-w G4 D15C3			l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached \rightarrow KH-5-350-G4-11 D5M3 Uniaxial Resistance: 350 Ω	24 hours or le 72 hours or le Types, ler <u>Type</u> Length 15 cm 30 cm 1 m	ess at 350°C ess at 300°C ngths and codes of	lead-wir	e cable lated 3-w G4 D15C3 D30C3 D1M3			l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached → KH-5-350-G4-11 D5M3	24 hours or le 72 hours or le Types, ler <u>Type</u> <u>Length</u> 15 cm <u>30 cm</u> 1 m <u>3 m</u>	ess at 350°C ess at 300°C ngths and codes of	lead-wir	re cable lated 3-w G4 D15C3 D30C3 D1M3 D3M3			l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached \rightarrow KH-5-350-G4-11 D5M3 Uniaxial Resistance: 350 Ω Gage factor: Approx. 2.0 (At 350 °C)	24 hours or le 72 hours or le Types, ler <u>Type</u> Length 15 cm 30 cm 1 m	ess at 350°C ess at 300°C ngths and codes of	lead-wir	e cable lated 3-w G4 D15C3 D30C3 D1M3	vire copper o		l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached \rightarrow KH-5-350-G4-11 D5M3 Uniaxial Resistance: 350 Ω Gage factor: Approx. 2.0 (At 350 °C)	24 hours or le 72 hours or le Types, ler Length 15 cm 30 cm 1 m 3 m 5 m Operating temp. * For other	iss at 350°C ss at 300°C ogths and codes of Glass-co lead-wire cable le	lead-wir oated Ni-p -50	re cable lated 3-w G4 D15C3 D30C3 D1M3 D3M3 D5M3 D5M3 D to 350°	vire copper of		l to KH gage
For the gage with a glass-coated Ni-plated 3-wire copper cable 5 m long pre-attached \rightarrow KH-5-350-G4-11 D5M3 Uniaxial Resistance: 350 Ω Gage factor: Approx. 2.0 (At 350 °C)	24 hours or le 72 hours or le Types, ler Length 15 cm 30 cm 1 m 3 m 5 m Operating temp.	iss at 350°C ss at 300°C ogths and codes of Glass-co lead-wire cable le -G4-11	lead-wir oated Ni-p -50	re cable lated 3-w G4 D15C3 D30C3 D1M3 D3M3 D5M3 D5M3 D to 350°	vire copper of		5 gages/ pkg

10 gages/ pkg unless otherwise specified.