Gages for Concrete (KM & KMC)

Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm)		
		Gage (Grid)	Base	Remarks
		Length Width	Length Width	

KM Series Embedded Strain Gages

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

and elastic modulus for the intended purpose.

Operating Temperature: –10 to 70°C

E.g.

For the gage with a vinyl-coated flat 3-wire cable 5 m long

→ KM-120-120-H2-11 W5M3

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

The KM series gages are designed to be embedded in mortar or concrete for the purpose of measuring the internal stress. To ensure

better adhesion to mortar or the like, the KM series gages feature a

specially treated surface. They also provide suitable waterproofness

Туре	KM-30 Vinyl-coated flat 2-wire cable	KM-120 Vinyl-coated flat 3-wire cable		
Length	Н1	H2		
1 m	Y1M2	W1M3		
3 m	Y3M2 W3M3			
5 m	Y5M2	W5M3		
Operating temp.	-10 to 70°C			

The following model is delivered with a vinyl-coated flat 2-wire cable 1 m long pre-attached.

Uniaxial foil strain gages with vinyl-coated flat 2-wire cable

Resistance: 120Ω Gage factor: Approx. 1.8

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

KM-30-120-H1-11 Y1M2

30×9×3

gage/ pkg

Uniaxial foil strain gages with vinyl-coated flat 3-wire cable

Resistance: 120Ω Gage factor: Approx. 2.0



The following model is delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KM-120-120-H2-11 W1M3

120×15×5

1 gage/ pkg

Gage Resistance, Gage Factor Models Gage (Grid) Base Remarks Length Width	Patterns, Gage Resistance, Gage Factor		Dimensions (mm)		
Length Width Length Width			Gage (Grid)	Base	Remarks
3			Length Width	Length Width	

●KMC Series Concrete-embedded Strain Gages

The KMC series gages are designed to measure self-shrinkage and self-stress of cemented materials. They enable measurement of the self-shrinkage and high-fluidity concrete immediately after placing. They are also used effectively to check for cracks of cemented materials. Usually, a T-type thermocouple is installed near the gage, while the KMC series gages of H4 type do not require such the installation since they are equipped with a built-in thermocouple.

Uniaxial wire strain gages with vinyl-coated flat 3-wire cable 3 m long

Resistance: 120 Ω

Operating Temperature: Normal temperature to 70°C

1 gage/ pkg

The KMC series gages are available only with a vinyl-coated flat 3-wire cable 3 m long pre-attached.

KMC-70-120-H3

80×10×2

KMC-70-120-H4

80×10×2

T-type thermocouple built in



Outline

Lead-wire cable

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