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.

E.g.

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

→ KM-120-120-H2-11 W5M3

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 and elastic modulus for the intended purpose.

Operating Temperature: -10 to 70°C

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

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		

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

Resistance: 120 Ω Gage factor: Approx. 1.8



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

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

KM-30-120-H1-11 Y1M2

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

Resistance: 120 Ω 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

Detterres	Models	Dimensions (mm)		
Patterns, Gage Resistance, Gage Factor		Gage (Grid)	Base	Remarks
dage Resistance, dage Factor		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

Ultra-small strain Low temp

High elongation

Nonmagnetoresistive

Hydrogen gas Bending

With protector Embedded

Crack

Adhesive Coating agent

designed