

Concrete-embedded Strain Gages

These strain gages are for measuring self shrinkage and self stress in cement materials. They can measure self shrinkage immediately after being driven into high-strength or high-fluidity concrete. They can be used for such applications as investigating cracking in cement materials. H4-type strain gage contains a built-in T thermocouple.

■ Operating Temperature

Operating Temperature	Installation Method
normal temp. to 70°C	Embedment

■ Models

Patterns, Gage Resistance, Gage Factor	Model	Dimensions (mm)			Remarks
		Length	Width	Thickness	
Uniaxial Resistance: 120 Ω	KMC-70-120-H3	80	10	2	Type T thermocouple (class 2) built-in
	KMC-70-120-H4	80	10	2	



*The above picture is KMC-70-120-H3.

■ How to order

*Vinyl-coated flat 3-wire cable 3 m long pre-attached.

*1 gages/pkg



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
SensorKMP
Embedded Gage

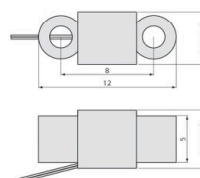
These sensors are embedded in resin to measure hardening shrinkage and internal strain of the resin. They are compact and can be used inside resin with complex shapes, making them suitable for applications such as measuring internal stress when used in combination with a metallic material and a material such as epoxy resin. *These gages were invented by Mitsubishi Electric Corporation and are sold as products by Kyowa.

■ Operating Temperature

Operating Temperature	Installation Method
20 to 150°C	Embedment

■ Models

Patterns, Gage Resistance, Gage Factor	Model	Dimensions (mm)	Remarks
Resistance: 120 Ω Gage factor: Approx. 2.0 Apparent Young Modulus Approx. 70 GPa (Approx. 7000 kgf/mm ²)	KMP-8-H3-L100	See the figures below.	Type K thermocouple (class 2) built-in



■ How to order

*Polyester-coated copper wires 1 m long

*1 gages/pkg