

Smaller diameter enables strain measurement during the curing process of concrete, mortar, asphalt, synthetic resin, etc. with thin cover thicknesses!

## Features

•Smaller diameter (50% by volume compared to conventional products)

•Applicable to concrete, mortar, asphalt, and synthetic resin with thin cover thickness

•Applicable to measurement of surface strain on cut beams and steel sheet piles of mountain retaining

- •Possible to measure from young lumber age
- •Low apparent modulus of elasticity,

so it can be measured from the concrete hardening process

(Conventional product  $40N/mm^2 \rightarrow KM-M$  approx.  $25N/mm^2$ )

•Possible to measure strain and temperature simultaneously (KM-100HM, KM-100MT)

"KM-M Strain Transducer" have extremely high insulation properties and can measure strain with high accuracy. The "Strain Transducer with built-in temperature measuring function" can measure strain and temperature at the same time, which greatly simplifies wiring work. In addition, a wide variety of related products enable measurement of not only internal strain of concrete but also surface strain of steel materials such as "concrete surface" and "H-shaped steel".

# 0

30% smaller!

Protection ratings : IP 68 equivalent

# Specifications

Туре	KM-100M	KM-100HM	KM-100MT
Capacity	±5000×10 <sup>-6</sup> strain		
Gauge length	100mm		
Rated output (Approx.)	approx. 2.5mV/V(5000×10 <sup>-6</sup> strain)		
Non-linearity	2%RO		
Apparent elastic modulus	approx. 25N/mm <sup>2</sup>		
Temperature measurement	-	Strain gauge 350Ω Quarter bridge 3-wire method (approx. 50×10 <sup>6</sup> strain/℃)	Thermocouple T
Allowable temperature range	-20~+80℃	-20~+180℃	-20~+80℃
Input/output resistance	350Ω Full bridge		

### Input-output cable

KM-100M Ø6mm 0.35mm<sup>2</sup> 4-core shielded chloroprene cable 2m, free end
KM-100HM Ø6mm 0.3mm<sup>2</sup> 5-core shielded fluoroplastic cable 2m free end
KM-100MT Ø6mm 0.18mm<sup>2</sup> 4-core shielded T-thermocouple compound cable, free end

Tokyo Measuring Instruments Laboratory Co., Ltd.

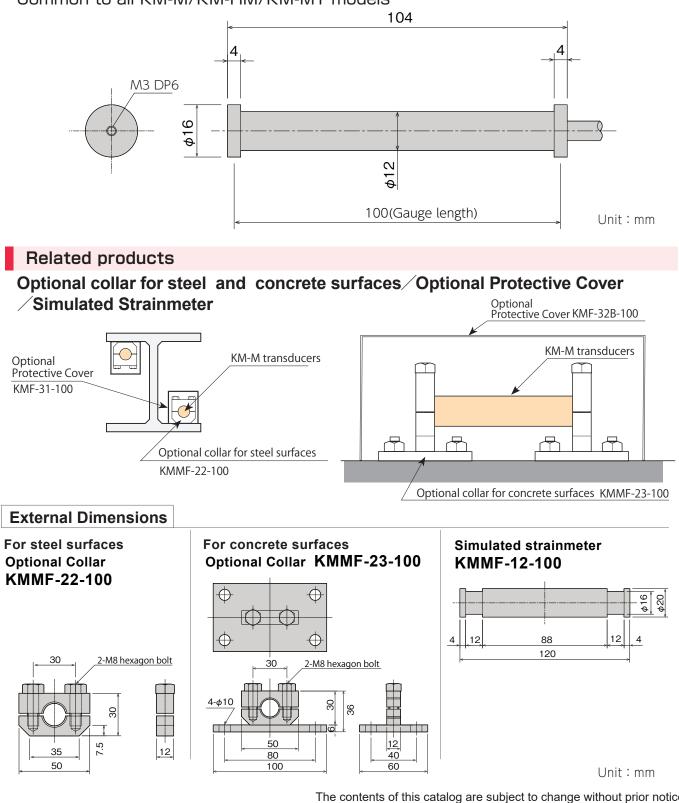
#### Dimension

intertek

Approval Certificate **ISO9001** Design and manufacture of

strain gauges, strain measuring equipment and transducers

#### Common to all KM-M/KM-HM/KM-MT models



The contents of this catalog are subject to change without prior notice. The contents of this catalog are as of May 2024. TML Pam E2044B.



8-2, Minami-ohi 6-chome, Shinagawa-ku, Tokyo 140-8560, JAPAN TEL: +81-3-3763-5614 FAX: +81-3-3763-6128

