METAL BACKING STRAIN GAUGES series FLM/WFLM

Operating temperature range
–20°C ——— +80°C
Temperature compensation range
+10°C ——— +80°C

Suffix code for temperature compensation materials
-11: Mild steel ■
For ordering, the above suffix code should be added to the basic gauge type.

C concrete M mortar

Applicable adhesives

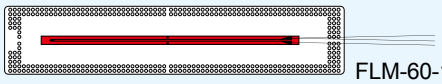
PS	–20 ~ +80ºC

CONCRETE, MORTAR MATERIAL USE

These strain gauges have thin stainless steel backings which prevent the penetration of moisture from the reverse sides. This construction is aimed for successful strain measurement on concrete surface. The WFLM gauges have moisture proofing over-coating and integral leadwire in addition to the stainless steel backing. It is intended for long term measurement or measurement on underwater-curing conctrete.

Example of type number designation.
FLM-30 -11 -2LJCT
- -2LJCT: Length in meter and type of integral leadwire
- -11: Self-temperature-compensation for Mild steel
- FLM-30: Basic strain gauge type

Single element



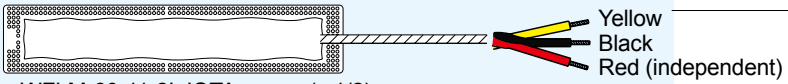
FLM-60-11 (x 1/2)

Refer to pages 19-20 for applicable integral leadwire.

Single element	Each package contains 10 gauges.					
	Gauge size L	W	Backing L	W	T	Resistance Ω
FLM-30-11	30	0.5	60	18	0.12	120
FLM-60-11	60	0.7	90	18	0.12	120

WATERPROOF TYPE
Single element

0.09mm² 3-wire twisted cross-linked polyethylene integral leadwire of 2m -2LJQTA
Total leadwire resistance per meter : 0.4Ω



WFLM-60-11-2LJQTA (x 1/2)

Integral leadwire length longer than 2m is available.

Single element	Each package contains 10 gauges.					
	Gauge size L	W	Backing L	W	T	Resistance Ω
WFLM-30-11-2LJQTA	30	0.5	60	18	4	120
WFLM-60-11-2LJQTA	60	0.7	90	18	4	120

MOLD STRAIN GAUGES series PM

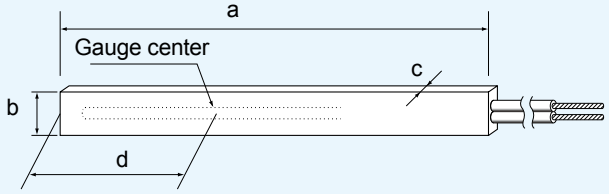
Operating temperature range
–20°C ——— +60°C

C concrete M mortar

CONCRETE, MORTAR MATERIAL USE

These gauges are designed exclusively for the measurement of internal strain of concrete or mortar under loading test. These are embedded into the measurement position when the concrete or mortar is placed. The gauges have a construction of the sensing element sealed into the backing made of acrylic resin for waterproofing.

Example of type number designation.
PML-60 -11 -2LJD
- -2LJD: Length in meter and type of integral leadwire 0.12mm paralleled vinyl leadwire of 2-meter
- -11: Self-temperature-compensation for Mild steel
- PML-60: Basic strain gauge type



Integral leadwire length longer than 2m are available.

Single element	Each package contains 5 gauges.						
	Gauge size L	W	Backing a	b	c	d	Resistance Ω
PML-60 -2LJD	60	1	125	13	5	40	120
PML-120 -2LJDT	120	1	180	13	5	65	120

For long-term measurement of concrete structure, use Strain Transducer KM (refer to page 69).