MOLD STRAIN GAUGE series "PM"

concrete mortar

Operational temperature −20～+60℃

CONCRETE, MORTAR MATERIALS USE

Gauge pattern

This gauge has been exclusively designed for measuring interior strain in concrete or mortar under loading test.

●Single-element (G.F. 2.1 approx.)

0.3mm² integral vinyl leadwire of 2m standard

Total leadwire resistance per meter : 0.12Ω

2-wire system

PML-60

Each package contains 5 gauges.

L : length W : width (Unit : mm)

*For long-term period use, Strain Transducer KM should be applied.

Type		Gauge (mm) Length	Width	Backing a	b	c	d	Resistance in Ω
PML-60	-2L -2LT※	60	1	125	13	5	40	120
PML-120		120	1	180	13	5	65	120

※3-wire system(-2LT) is made to order.

MOLD STRAIN GAUGE series "PMF"

concrete mortar

Operational temperature −20～+60℃

CONCRETE, MORTAR MATERIALS USE

Gauge pattern

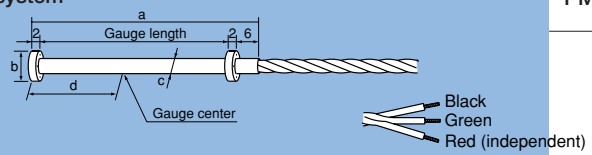
This gauge has been designed for measuring interior strain in concrete or mortar under loading test. It employs super engineering plastics capable of superior water proofing characteristics. Its small construction enables installation even in a small specimen. Measurement of both strain and temperature is possible by combining the temperature integrated gauge with TML data logger.

●Single-element (G.F. 2.0 approx.)

0.09mm² integral crosslinked vinyl sheath leadwire of 2m standard

Total leadwire resistance per meter : 0.4Ω

3-wire system



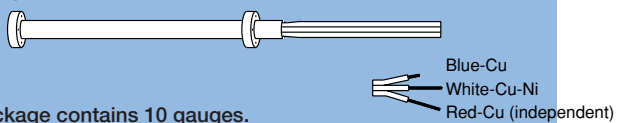
Temperature Sensor integrated

●Single-element (G.F. 2.0 approx.)

0.08mm² integral vinyl leadwire of 3m standard

Total leadwire resistance per meter : 0.44Ω

3-wire system



Each package contains 10 gauges.

L : length W : width T : thickness (Unit : mm)

*For long-term period use, Strain Transducer KM should be applied.

Type		Gauge length (mm)	Backing L	W	T	Resistance in Ω
			a	b	c	d	
PMFL-50	-2LT	50	60	φ8	φ4	27	120
PMFL-60		60	70	φ8	φ4	32	120
			a	b	c	d	
PMFL-50T	-3LT	50	60	φ8	φ4	27	120
PMFL-60T		60	70	φ8	φ4	32	120

For wiring method, refer to page 33.

These gauges are made to order.

Asphalt Mold STRAIN GAUGE series "PMFLS"

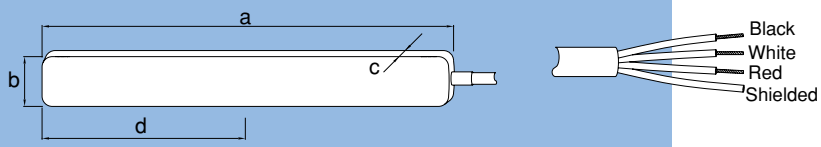
Operational temperature −20～+60℃

ASPHALT PAVEMENT USE

The gauge is embedded in asphalts and used for testing in loading application such as rolling compaction. The material of the gauge base is super engineering plastics with water and heat resistance. The gauge withstands a high temperature up to 200℃ expected when asphalts are placed and is self-temperature-compensated for the asphalts.

●Single element

Leadwires used: 6mm dia. 4-core shielded chloroprene insulated, 2m long
Total resistance per meter of leadwires : 0.11 Ω
3-wire quarter bridge configuration



Gauge pattern	Type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance in Ω
		L : length	W : width (Unit : mm)			
				a b c d		
	PMFLS-60-50-2LT	60		120 13 7 60		120

Pavement surface series "SSM-360" STRAIN GAUGE

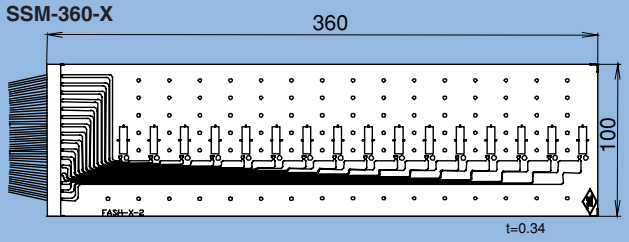
Compatible adhesive & Operational temperature
PS (−20～+80℃)
RP-2 (−20～+80℃)

Operational temperature −20～+80℃
Temperaturecompensation range +10～+80℃

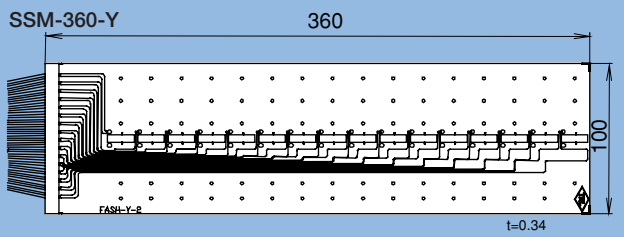
PAVEMENT SURFACE

The gauge has 16 strain elements in X or Y direction on the same gauge base. The gauge is stuck on the surface of pavement and can monitor strain distribution of the surface.

SSM-360-X



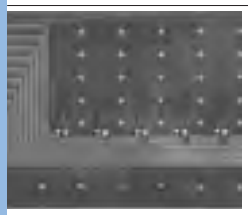
SSM-360-Y



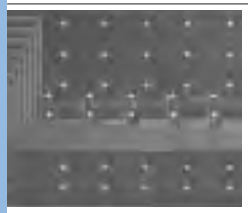
This series is a joint development product with National Institute for Land and Infrastructure Management - Airport Department, Toa Road Corporation and TML.
Patent No.4260864

A test conducted for some pavement study demonstrated that the strains in the longitudinal direction of the pavement measured by the surface strain gauge almost coincided with the strains obtained by multilayer elastic analysis.

Gauge pattern	Type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance in Ω
		L : length	W : width (Unit : mm)			
	SSM-360-X	10	0.9	360	100	120
	SSM-360-Y	10	0.9	360	100	120



●Single element
X direction 16 strain elements



●Single element
Y direction 16 strain elements