



# Mold Strain Gauges PMF series

These gauges are designed for the measurement of internal strain of concrete or mortar under loading test. These can also be used for short-term measurement of the behavior of concrete. These are embedded into the measurement position when the concrete or mortar is placed. The gauges employ super engineering plastics as the backing for sealing the sensing element, which provides excellent waterproofing. A temperature-integrated type PMFL-T is available for measurement of both strain and temperature using our data loggers.

Operating temperature range  $-20 \sim +60^{\circ}\text{C}$

Please specify the type number as shown in the example below.

**PMFL -50 (-F) -2LJRTA (-F)**

Gauge pattern	Type	Gauge Length(mm)	Backing (mm)				Resistance $\Omega$
			a	b	c	d	
<b>●Single axis</b> 3-wire system  PMFL-50-2LJRTA	PMFL-50	50	60	$\phi 8$	$\phi 4$	27	120
	PMFL-60	60	70	$\phi 8$	$\phi 4$	32	120
0.09mm <sup>2</sup> 3-wire cross-linked vinyl leadwire of 2m -2LJRTA Total leadwire resistance per meter : 0.4 $\Omega$							
<b>●Temperature sensor integrated</b> 3-wire system Refer to page 16 for details of Temperature-integrated strain gauge.  PMFL-50T-3TLJBT	PMFL-50T	50	60	$\phi 8$	$\phi 4$	27	120
	PMFL-60T	60	70	$\phi 8$	$\phi 4$	32	120
0.08mm <sup>2</sup> integral cross-linked vinyl leadwire of 3m -3TLJBT Total leadwire resistance per meter : 0.44 $\Omega$ (Loop resistance for copper core wires) * These gauges are made to order.							

**Note**

For long-term measurement of concrete structure, use Strain Transducer KM



# Asphalt Mold Strain Gauges PMFLS series

These gauges are embedded in asphalt and used for strain measurement in loading test such as rolling compaction. The material of the backing is super engineering plastics featuring high temperature resistivity and waterproofing performance. The gauges withstand a high temperature up to 200°C during placement of asphalt, and the operating temperature range is  $-20 \sim +60^{\circ}\text{C}$ .

Operating temperature range  $-20 \sim +60^{\circ}\text{C}$

Please specify the type number as shown in the example below.

**PMFLS -60 -50 (-F) -2LTSC (-F)**

Gauge pattern	Type	Gauge Length(mm)	Backing (mm)				Resistance $\Omega$
			a	b	c	d	
<b>●Single axis</b> 3-wire system  PMFLS-60-50-2LTSC	PMFLS-60-50	60	120	13	Approx. 7	60	120
$\phi 6\text{mm}$ 3-wire shielded chloroprene cable of 2m -2LTSC Total leadwire resistance per meter : 0.11 $\Omega$							

Minimum order quantity is 1 strain gauge.