

콘크리트용 TML Concrete Material Use

Concrete Material Use Strain Gauge

P series Polyester wire strain gauge

These are wire strain gauges utilizing a polyester resin backing. They are mainly used for surface strain measurement on concrete, mortar or rock.

Applicable specimen	Concrete, Mortar
Operational temperature (°C)	-20 to +80 °C
Temperature compensation range (°C)	+10 to +80 °C
Applicable adhesive	CN-E, RP-2, PS
Backing	Polyester
Element	Cu-Ni (wire)
Strain limit at room temperature	2 % (20000 x 10 ⁻⁶ strain)
Fatigue life at room temperature	1 x 10 ⁵ (±1000 x 10 ⁻⁶ strain)

PF series Polyester foil strain gauge

These are foil strain gauges utilizing a polyester resin backing which is the same as the P series. It is suited mainly to strain measurement on concrete or mortar.

Applicable specimen	Metal, Mortar
Operational temperature(°C)	-20 to +80 °C
Temperature compensation range(°C)	+10 to +80 °C
Applicable adhesive	CN-E, RP-2, PS
Backing	Polyester
Element	Cu-Ni
Strain limit at room temperature	2 % (20000 x 10 ⁻⁶ strain)
Fatigue life at room temperature	1 x 10 ⁵ (±1500 x 10 ⁻⁶ strain)

FLM/WFLM series Metal backing strain gauge

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 concrete.

Applicable specimen	Concrete, Mortar
Operational temperature(°C)	-20 to +80 °C
Temperature compensation range(°C)	+10 to +80 °C
Applicable adhesive	PS
Backing	SUS304
Element	Ni-Cr
Strain limit at room temperature	0.5 % (5000 x 10 ⁻⁶ strain)
Fatigue life at room temperature	1 x 10 ⁵ (±1000 x 10 ⁻⁶ strain)