

Measuring Strain Ring for strain measurement

The measuring StrainRing type SML-RS,SML-RA measures the strain on tie-bars or round profiles through the built-in strain gauges. These measuring Strain Ring can be adapted to different tie bar diameters. The applied press-on technology allows to mount and dismount this measuring system without to destroy the used strain gauge bonding or similar operations. There have 2 version:



SML-RS standard type SML-RA integrated amplifier

Due to the simple way of mounting these rings, as well as to there high precision and industry conform execution, these measuring Strain Rings can be used for strain and force measurements respectively by machine manufacturers.



SML-RS / RA mounted on a tie-bar

Features:

- Very easy installation through two M8 screws
- Accuracy: 1%
- Measuring range: SML-RS +/-1000 $\mu\epsilon$, SML-RA +/- 500 $\mu\epsilon$
- Uniform k-factor
- Idea for online clamping force control
SML-RS with separate amplifier or SML-RA integrated amplifier.



Technical specifications

2x1/4brldge, gauge	350 Ω standard
K-Factor	2.0 standard
Measuring range (F.S.) $\mu\epsilon$	+/- 1000 (RS), +/- 500(RA)
Accuracy	1%
Hysteresis	< 0.2%
Repeatability	< 0,1% of F.S.
Press-on torque	3 Nm
Operating temperature range °C	0...+55
Protection class	IP-54
Signal output (integrated amplifier)	500 $\mu\epsilon$ = 10 VDC
Power supply (SML-RA)	24 VDC

Sensormate Technology Inc.

<http://www.sensormate.com>
TEL: + 886 2 2999 5245

E-mail: sales@sensormate.com
Fax: + 886 2 2995 0782