# LMR-S-SA2 **Small-sized Compression Load Cell**

## **Specifications** Performance **Rated Capacity** Nonlinearity Hysteresis **Rated Output**

LMR-S-5KNSA2

\*TEDS-installed models are available. Inquiries are welcome. \*High-temperature models up to 150 °C are available. Inquiries are welcome.

# **Compact & lightweight Moderate price** Suitable for load distribution measurement

Compact & lightweight LMR-S-SA2 series load cells are used by just putting or bonding on the measurement point or setting in a hollow. Major applications include measurement of load distribution by using multiple units, load measurement in pipe making mills or where a measuring site or the weight of the load cell itself is limited.

#### **Environmental Characteristics** Safe Temperature **Compensated Temperature** Temperature Effect on Zero **Temperature Effect on Output Electrical Characteristics** Safe Excitation 7 V AC or DC **Recommended Excitation** 1 to 2 V AC or DC Input Resistance 350 Ω±2% 350 Ω±2% **Output Resistance** Cable 4-conductor (0.035 mm<sup>2</sup>) vinyl shielded cable, 1.7 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to the case.)

## **Mechanical Properties**

Safe Overloads	120%
Natural Frequencies	Approx. 50 kHz
Weight	Approx. 25 g (Excluding cable)
Materials	Stainless steel

Ø21 mm, thickness: 10 mm ●2 to 20 kN

See table below

Within ±1% RO

Within ±1% RO

(20KNSA2: Within ±2% RO)

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1 mV/V (2000 ×10<sup>-6</sup> strain) or more

-10 to 60°C

Within ±0.05% RO/°C Within ±0.05%/°C

0 to 50°C

Models	Rated Capacity
LMR-S-2KNSA2	2 kN
LMR-S-5KNSA2	5 kN
LMR-S-10KNSA2	10 kN
LMR-S-20KNSA2	20 kN

### **To Ensure Safe Usage**



Compact large capacity load cells result in high surface pressure on the mounting surfaces under rated load. For the patch & installation plane material, use HRC40 to 44. Smoothness of mounting surfaces both patch and installation plane as smooth as Rz2.5 or so is recommended.

#### Dimensions SR11.5 іл Ф $_{\odot}$ ø $\infty$ 2.5) 2.5) (5) φ21 (5) *φ*21 Bared at the tip LMR-S-2KNSA2 LMR-S-5KNSA2 to 20KNSA2 Physical quantity indication Static measurement Opynamic measurement LMR-S-SA2 -Recommended .... products for Instrumentation Amplifier Data Logger UCAM-60 series Instrumentation Amplifie Strain Amplifier Universal Recorde Universal Recorde combination WGA-900A WGA-680A DPM-900 series EDX-200A EDX-100A 3-95 3-97 3-27 3-5 3-57 3-65



.oad Cells (Load Transducers)