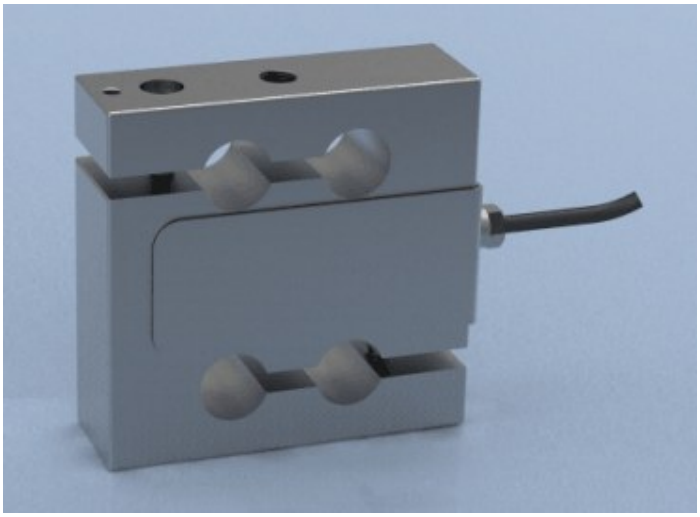
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Celula de tensionare si compresie STA-7



Celula de tensionare si compresie STA-7 Producator: LCM Systems STA-7 Low Range S Type Tension & Compression Load Cell

Descriere

- Capacităţi: 1, 2, 5, 10, 25, 50kg
- Precizie ridicată
- Aliaj de aluminiu
- Cântăreşte doar 300g
- Opriri integrale la suprasarcină pentru versiunile de 1, 2 şi 5kg

Seria de celule de sarcină STA-7 este ideală atât pentru măsurarea forţelor de întindere, cât şi a celor de compresie. Filetele metrice standard la fiecare capăt al celulei de sarcină sunt concepute pentru a accepta lagărele standard cu locaş sferic la capetele tijei.

Seria STA-7 este potrivită pentru numeroase aplicaţii, inclusiv pentru mediile aspre, unde este necesară o celulă de tensiune şi compresie pentru măsurători exacte, inclusiv pentru utilaje pentru testarea materialelor, cântărire şi măsurători generale ale forţelor. Blocajele la suprasarcină de tensiune şi compresie sunt furnizate în mod standard pentru toate domeniile de până la 5kg. Această caracteristică ajută la protejarea celulei de sarcină de daunele accidentale de până la 500% din domeniul celulei de sarcină.

Seria STA-7 poate fi furnizată individual sau în combinaţie cu gama noastră extinsă de instrumente de măsură şi control, pentru furnizarea unui sistem complet de monitorizare a sarcinii.

STA-7 Low Range S Type Tension & Compression Load Cell

Features :

- Ranges 1 to 50kg
- High Accuracy
- Aluminium Alloy
- Weighs only 300g
- Integral Overload Stops on 1, 2, 5kg versions

The STA-7 series load cell is ideal for measuring both tensile and compressive forces. The standard metric threads at each end of the load cell are designed to accept standard spherical seating rod-end bearings.

The STA-7 is suitable for many applications where a tension and compression load cell is required, for high accuracy measurements. Applications such as material test machines, weighing, general force measurement etc.

Tension and compression overload stops are supplied as standard on all ranges up to 5kg. This feature helps to

protect the load cell against accidental damage up to 500% of the load cell range.

The STA-7 series can be supplied on it’s own or combined with our extensive range of instrumentation to provide a complete load monitoring system.

Specification :

Rated Load (FSO)	1, 2, 5, 10, 25, 50 kg
Overload Range	150% FSO (500% on 1, 2, 5kg - using overload stops)
Ultimate Breaking Load	>300% FSO
Output	2.0 mV/V (±0.1%)
Zero Balance	<±1% FSO
Linearity	<±0.03% FSO
Hysteresis	<0.03% FSO
Non-Repeatability	<±0.01% FSO
Maximum Transverse Load	50% FSO
Transverse Load Effect (at 10% FSO)	<±0.03% FSO
Excitation Voltage	10vdc recommended, 15vdc maximum
Input Resistance	440Ω ±20Ω
Output Resistance	350Ω ±2Ω
Insulation Resistance	> 500MΩ @ 100vdc
Operating Temperature Range	-20 to +70°C
Compensated Temperature Range	-10 to +40°C
Zero Temperature Coefficient	< ±0.003% FSO/°C
Span Temperature Coefficient	< ±0.003% FSO/°C
Environmental Protection Level	IP20
Natural Frequency	1kg 2kg 5kg 10kg 25kg 50kg 220Hz 500Hz 750Hz 1kHz 1.5kHz 2kHz
Weight (load cell only)	0.3kg

Caracteristici tehnice

Caracteristică	Detalii
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