

Application Note

Tension and Compression S-Beam Load Cells in Industrial and Medical Applications

Used to deliver accurate and reliable force measurement

Industrial and Medical Applications:

Universal Test Machines, Material Test Machines



Background

To most manufacturers, material and component testing have become increasingly important. From a steelmaker confirming the mechanical strength and property of the metal produced, to a food and beverage company ensuring both food texture and packaging strength, to testing of medical needles and syringes ensuring precise performance to meet specifications for safe treatment of patients, accuracy and consistent measurement are vital.

Force testing during development and production cycles enables the manufacturer to provide consistent product quality and performance for forces necessary to meet the product's specification/functional property. The purpose is to collect force data versus time and displacement of the test specimen.

Solution

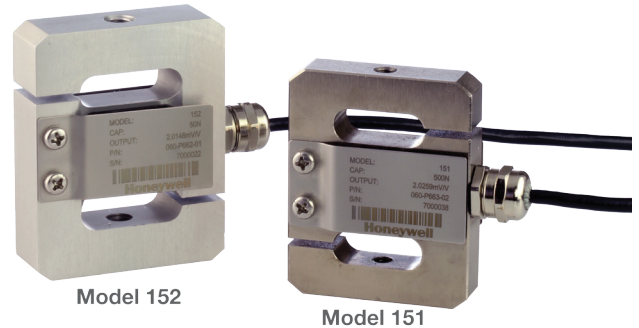
Honeywell Model 151/152 S-beam Load Cells help keep equipment and test specimens safe, along with minimizing test time and maintenance (e.g., re-setup, calibration) through reliable force measurement. Force feedback on the test specimen is used for safety control, close-loop actuator control, and measurement data acquisition.

Application Note

S-Beam Tension and Compression Load Cells, Models 151 & 152

Features

- Tension and compression load/force measurement
- Wide capacity range: 50 N to 50 kN
- Enhanced accuracy: ± 0.03 %FS
- Metric thread
- One-piece, nickel-plated alloy steel (CA151) or aluminum (CA152) construction
- Overload capacity: 150 %
- IP65 sealing
- Integrated cable: 1,5 m [4.92 ft]
- 5-points calibration data
- Mechanical shock tested 50 g peak to IEC 60068-2-27
- EMC tested to IEC/EN 61326-2-3
- Vibration tested to IEC 60068-2-6



Find Out More

To learn more about Honeywell products, contact a Honeywell representative today at

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e-mail info.tm@honeywell.com,

or visit sensing.honeywell.com

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While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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