

S-Beam Tension and Compression Load Cells

Models 151 and 152

Honeywell Models 151/152 S-Beam Load Cells combine compact structure with enhanced precision and rigorous testing to form a highly reliable and durable tension and compression force transducer. The one-piece design achieves an accuracy of $\pm 0.03\%$ full scale. The lower capacity (50 N and 100 N) Models 152 (Order Code CA152) are constructed from aluminum; whereas higher capacity load cells Models 151 (250 N to 50K N) are made with alloy steel (Order Code CA151)

Models 151/152 load cells help keep equipment and specimens safe, as well as minimize test time and maintenance through reliable force measurement.

FEATURES

- Tension and compression load/force measurement
- Wide capacity range: 50 N to 50K N
- Accuracy: $\pm 0.03\%$ FS
- Metric thread
- One-piece, nickel-plated alloy steel or aluminum construction
- Overload capacity: 150 %FS
- IP67 sealing
- Integrated cable: 1.5 m [4.92 ft]

Figure 1. Product Nomenclature

For example, **CA151NL1BB,2U,6F,9A,30B** defines a Model 151 S-Beam Load Cell, 250 N range, 14 °F to 104 °F [-10 °C to 40 °C] temperature compensation, unamplified, integral PVC cable, 10 point, tension and compression output.

	CA151	NL	1BB	2U	6F	9A	30B
	Receiver type	Range	Temperature Compensation	Internal Amplifiers	Electrical Termination	Special Calibration	Special Calibration (Load Cells Only)
S-Beam Series Load Cell	MK 50 N	1BB 14 °F to 104 °F [-10 °C to 40 °C] temp. comp.	2U Unamplified	6F Integral cable, PVC 1,5 m [4.92 ft]	9A 10 point, (5 up/5 down) 20 % Increments	30B Tension and compression (+, -) output	
Model 151^A	ML 100 N						
CA151 (order code)	NL 250 N						
Model 152^B	MY 500 N						
CA152 (order code)	MN 1000 N						
A made from alloy steel. For use ONLY with ranges 250 N and greater.	MO 2000 N						
	MQ 5000 N						
B made from aluminum. For use ONLY with ranges 50 N and 100 N.	MR 10K N						
	MS 20K N						
	ZN 30K N						
	MT 50K N						

Range	Description	Order Code	Honeywell Part Number
50 N	Model 152 50 N	CA152MK,1BB,2U,6F,30B	060-P662-01
100 N	Model 152 100 N	CA152ML,1BB,2U,6F,30B	060-P662-02
250 N	Model 151 250 N	CA151NL,1BB,2U,6F,30B	060-P663-01
500 N	Model 151 500 N	CA151MY,1BB,2U,6F,30B	060-P663-02
1000 N	Model 151 1,000 N	CA151MN,1BB,2U,6F,30B	060-P664-01
2000 N	Model 151 2,000 N	CA151MO,1BB,2U,6F,30B	060-P665-01
5000 N	Model 151 5,000 N	CA151MQ,1BB,2U,6F,30B	060-P665-02
10K N	Model 151 10,000 N	CA151MR,1BB,2U,6F,30B	060-P665-03
20K N	Model 151 20,000 N	CA151MS,1BB,2U,6F,30B	060-P666-01
30K N	Model 151 30,000 N	CA151ZN,1BB,2U,6F,30B	060-P666-02
50K N	Model 151 50,000 N	CA151MT,1BB,2U,6F,30B	060-P666-03