

# Series BEM980

Low Profile Load Cell

## Standard Features

- Ultra Low Profile
- Tension / Compression
- High Accuracy 0.10%
- Stainless Steel
- -40°F to 250°F Operation
- Environmentally Protected
- mV/V Operation



## Standard Specifications

### Performance

<b>Capacities</b>	500, 1000, 2500, 5000 lbs.
<b>Output</b>	2 mV/V Nominal.
<b>Accuracy</b>	0.10% BFSL.
<b>Compensated Temperature Range</b>	70°F to 170°F.
<b>Operating Temperature Range</b>	-40°F to 250°F.
<b>Temperature Effect on Zero</b>	0.005% FSO/ F.
<b>Temperature Effect on Span</b>	0.005% Reading/ F.
<b>Zero Balance</b>	1% FSO.
<b>Bridge Resistance</b>	350 Ohms Nominal.

### Mechanical Characteristics

<b>Threads</b>	See table.
<b>Calibration</b>	5 Points (0, 50%, 100%, 50%, 0) Compression.
<b>Static Overload Capacity</b>	150% FSO.
<b>Construction</b>	Stainless steel environmentally protected.

### Electrical Characteristics

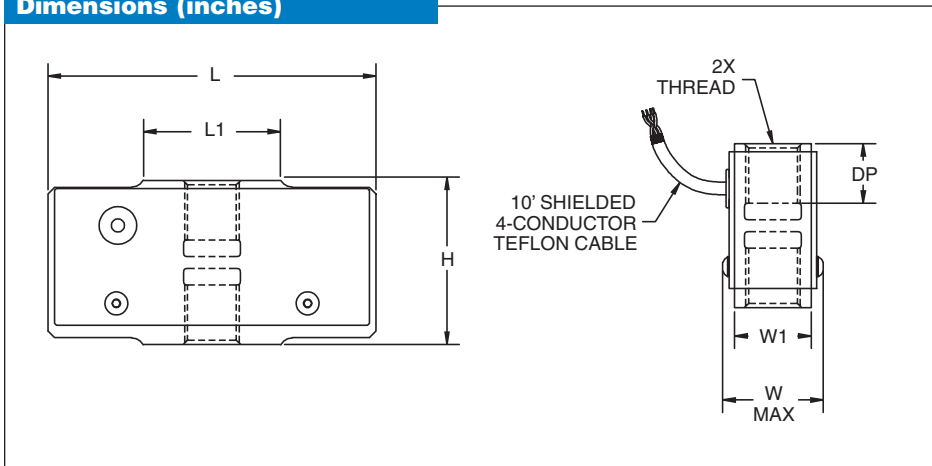
<b>Excitation</b>	10 Vdc or Vac.
<b>Insulation Resistance</b>	Greater than 5000 megaohms at 50 Vdc at 70°F.
<b>Electrical Termination</b>	10', 4 Conductor Shielded Teflon Cable.
<b>Wiring</b>	RED +EXE GREEN +SIG BLACK - EXE WHITE - SIG

**BEM980**

# Series BEM980 Specifications

Baseline Configuration Specs Represented.  
Modifications Encouraged - See Below  
Custom Designs Available

## Dimensions (inches)



Capacity (lbs)	L	L1	W	W1	H	THREAD	DP	NATURAL RINGING FREQUENCY (Hz)	DEFLECTION	WT (OZ)
500	3.00	1.25	1.00	0.70	1.50	1/2-20 UNF	0.53	2100	0.003	12
1000	3.00	1.25	1.00	0.70	1.50	1/2-20 UNF	0.53	2850	0.003	12
2000	3.00	1.25	1.25	0.95	1.63	1/2-20 UNF	0.53	5000	0.003	17
3000	4.00	1.79	1.50	1.20	1.75	1/2-20 UNF	0.53	4500	0.005	34
5000	4.12	1.79	1.88	1.62	2.00	3/4-16 UNF	0.75	6250	0.005	43

## Available Options

<b>Threads</b>	Metric.
<b>Compensated Temperature Ranges</b>	-40°F to 400°F.
<b>Operating Temperature Ranges</b>	-40°F to 400°F.
<b>Calibration</b>	Additional calibration points (in addition to standard 5 points) available (Consult Factory) Special and custom calibration available (Consult Factory)
<b>Calibration Direction</b>	Tension only. Tension / Compression.
<b>Amplifiers</b>	Integral or In-Line (Consult Factory). • Analog (4-20 mA; ±5 Vdc; ±10 Vdc). • Digital (RS-232; RS-485; CANbus; MODbus).
<b>Calibration Range</b>	Standardized Outputs. Special Full Scale Range (Example 3500 lbs).
<b>Cable</b>	6 conductor.
<b>Cable Length</b>	Cable length specified.
<b>Cable Connector</b>	Add a connector to the end of the cable. Consult factory for available connectors.
<b>Connector</b>	Connectors available. Consult factory.
<b>Bridges</b>	Dual and triple bridges available.
<b>Custom Options</b>	Other unlisted customer requested options welcome.



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NOTES: When using a load cell the user must consider load ratings and fatigue life for long term use and structural integrity. Critical loading applications, especially overhead loading, must always be designed with safety redundant load paths. MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. Specifications subject to change without notice.

WARRANTY: Stellar Technology warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Stellar Technology's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

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Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

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