



ISO 9001/AS9100 Certified

# MIN802

MINIATURE COMPRESSION LOAD CELL

YOUR ENGINEERED SOLUTION SOURCE <sup>SM</sup>



Shown Actual Size

## DESCRIPTION

The Series MIN802 load cells are compact-sized for compression load applications. Constructed of welded stainless steel, these bonded foil strain gaged force sensors provide reliable performance for demanding application conditions.

Each MIN802 force sensor has a machined load button that is an integral part of the sensing element. The MIN802 comes in a variety of mounting configurations. Additional features include shock and vibration protection. MIN802 load cells are ideal for applications in factory automation, robotics, and component testing. These load cells are often used in combination with our LVDT's for force versus displacement measurements.

Each unit is shipped with a 5 point calibration record traceable to NIST as standard.

## STANDARD FEATURES

- 0.25% Accuracy
- Compact Size
- Compression
- 2 mV/V
- Welded Stainless Steel
- -65°F to 250°F Standard Operating Temperature
- Shock and Vibration Resistant
- 5 Point Calibration Record Traceable to NIST

## OPTIONAL FEATURES

- Custom Mounting Configurations
- Metric Versions
- Special Calibration
- Customer Specified Cable Lengths
- -65°F to +400°F Operating Temperature

## PERFORMANCE

### STANDARD RANGES

100, 250, 500, 1000 lbs.

### OUTPUT

2mV/V nominal.

### ACCURACY

0.25% FSO BFSL.

### TEMPERATURE EFFECT ON ZERO

0.005% FSO/°F.

### TEMPERATURE EFFECT ON SPAN

0.005% Reading/°F.

### ZERO BALANCE

1% FSO.

## ENVIRONMENTAL CHARACTERISTICS

### OPERATING TEMPERATURE RANGE

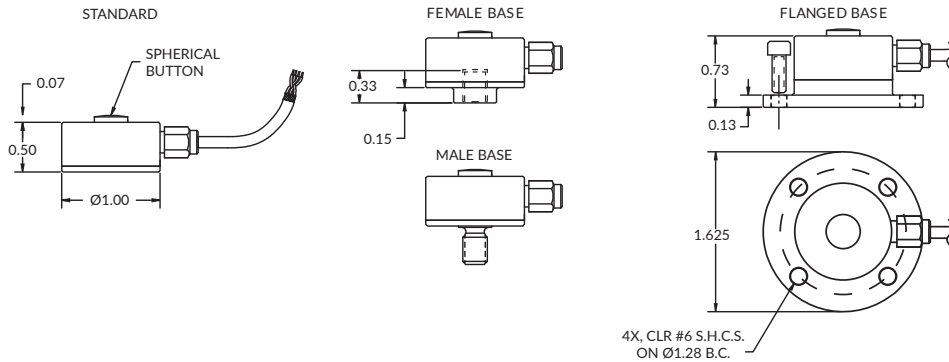
-65°F to 250°F.  
(-65°F to 400°F optional.)

### COMPENSATED TEMPERATURE RANGE

70°F to 170°F.  
(-65°F to 400°F optional.)



A US Manufacturer of: Pressure, Temperature, Load/  
Force/Torque, and Displacement Sensors.



## MECHANICAL CHARACTERISTICS

### STATIC OVERLOAD WITHOUT DAMAGE

150% Range.

### CALIBRATION

Standard calibration is 5 pts (0, 50%, 100%, 50%, 0 Range).

### MATERIAL

Welded stainless steel.

## ELECTRICAL CHARACTERISTICS

### BRIDGE RESISTANCE

350 Ohms nominal.

### EXCITATION

10 Vdc or 10 Vac.

### INSULATION RESISTANCE

Greater than 5000 megaohms at 50 Vdc.

### ELECTRICAL TERMINATION

10', 4 Conductor Shielded Teflon Cable.

## ELECTRICAL CHARACTERISTICS

### CONNECTOR PINS (STANDARD)

RED	+EXE	GREEN	-SIG
BLACK	-EXE	WHITE	+SIG

Customer specified wiring codes are available.

### MODIFICATIONS AND WARRANTY

MODIFICATIONS: We realize transducer applications vary greatly and as such our designs are flexible. Choice of pressure port, electrical termination, material compatibility and performance characteristics are a few of the many options available. Specifications on this datasheet represent the standard configuration only. Product and company names listed are trademarks of their respective companies. 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.