

# interface

ADVANCED FORCE MEASUREMENT

## LOW PROFILE™ GENERAL PURPOSE CALIBRATION LOAD CELLS

### 1000 Fatigue Rated

- Capacities from 250 to 100K lbf
- Metric capacities from 1.25 to 450 kN
- For fully reversed high cycle



### 1100 Ultra Precision

- Capacities from 300 to 200K lbf
- Metric capacities from 1.5 to 900 kN
- Highest accuracy



### 1200 Standard

- Capacities from 300 to 2000K lbf
- Metric capacities from 1.5 to 900 kN
- Eccentric load compensated



### 1200 Flange

- Capacities from 30K to 330K lbf
- Metric capacities from 140 to 1500 kN
- Eccentric load compensated



### 1700 Flange

- Capacities from 550 to 14K lbf
- Metric capacities from 10 to 20 kN
- Mounts directly to flange cylinders



### 1500 Standard Low Capacity

- Capacities from 25 to 300 lbf
- Metric capacities from 125 to 1500 N
- Very good for eccentric loads



### 2400 Standard Stainless Steel

- Capacities from 100 lbf to 20K lbf
- Metric capacities from 450 N to 90 kN
- Welded diaphragm/connector



### 3200 Standard Stainless Steel

- Capacities from 2.5K lbf to 100K lbf
- Metric capacities from 22 to 450 kN
- Hermetically sealed



### ATEX Approved Load Cells

- 3410, 3420, 3430
- 3421, 3431, 3441
- 3450 T & C Column
- Load Pins 3461, 3462
- Compression Beam 3401
- Tension Link 3403
- Hermetically sealed
- 2 wire amplified



3420 Shown

### 1600 Gold Standard™ Calibration Grade

- Capacities from 50 lbf to 100K
- Metric capacities from 2.2 to 450 kN
- Guaranteed to 4% lower load limit



### Gold Standard™ Load Cell Calibration System

- Reduces calibration time 50-90%
- Eliminates errors
- Automatic calculation & archiving



### 1800 Platinum Standard™ Calibration Grade

- Capacities from 1.1K to 55K lbf
- Metric capacities from 5 to 250 kN
- Integral adapter
- Guaranteed to 2% lower load limit



## MULTI-AXIS

### 5600 Axial Torsion

- Capacities from 6K lbf / 5K lb-in to 180K lbf / 300K lb-in
- Measures force and torque
- High stiffness



### 1216, 1516 & 2816 Axial Torsion

- 1516 Capacities 100 lb / 50 lb-in
- 1216 Capacities from 250/125 to 2K lbf / 1000 in-lb
- 2816 Capacities from 3.3K/2K to 15K lbf / 7.5K in-lb
- Measures load and torque



### 5200 Multi-Axis Load Cell

- Simultaneously measure thrust and moment perpendicular to the thrust axis
- High thrust and moment stiffness



**interface**

480-948-5555 • [www.interfaceforce.com](http://www.interfaceforce.com)  
Force Transducers, Torque Transducers, Instruments, and Calibration

## MINIATURE

### SM S-Type

- Capacities from 10 to 1K lbf
- Metric capacities from 50 N to 5 kN
- High accuracy "S" type cell



### SMT S-Type Overload Protected

- Capacities from 1.1 to 450 lbf
- Metric capacities from 5 N to 2 kN
- Safe overload to 10X capacity



### SMA Miniature S-Type

- Capacities from 15 to 200 lbf
- Compact design
- Tension & Compression



### ULC Ultra Low Capacity

- Capacities from 2 to 7 oz
- Metric capacities from 0.5 to 2 N
- Safe overload to 10X capacity



### SML Low Height

- Capacities from 5 to 1K lbf
- Metric capacities from 20 N to 4.5 kN
- Only 3/4" high



### WMC Miniature Sealed Stainless Steel

- Capacities from 5 to 10K lbf
- Stainless steel
- Tension & compression



### LBM Compression

- Capacities from 25 to 50K lbf
- Metric capacities from 110 N to 225 kN
- Low height



### LBS Miniature Compression

- Capacities from 5 to 1K lbf
- Metric capacities from 20 N to 4.5 kN
- Small diameter/low height



### MSC Small Diameter High Capacity

- Capacities from 15K to 30K lbf
- Compact design
- Stainless steel



### MB & MBP Overload Protected Miniature Beam

- Model MB Capacities from 5 to 250 lbf
- Model MBP Capacities from 2.5 to 10 lbf
- High accuracy beam type cell



### MBI Fatigue Rated Miniature Beam Overload Protected

- Capacities from 2.5 to 10 lbf
- Metric capacities from 10 to 50 N
- 10X overload protection



### LW Load Washer

- Capacities from 5 to 100K lbf
- Metric capacities from 22 N to 450 kN
- Thru hole design



### SSB Sealed Beam

- Capacities from 50 lbf to 1K lbf
- Metric capacities from 225 N to 4.5 kN
- Environmentally sealed



### SSM Sealed S-Type

- Capacities from 50 to 5K lbf
- Metric capacities from 200 N to 20 kN
- Sealed "S" type cell



### REC Rod End

- Capacities from 1K to 50K lbf
- Metric capacities from 5 to 220 kN
- Environmentally sealed



### Why buy Interface?

- Interface is the world's largest manufacturer of low profile load cells.
- Our load cells are guaranteed to outperform any comparable competitive product.
- We use minimum of 8 strain gages on each load cell.
- Every low profile load cell is mechanically moment compensated to provide a KNOWN performance when off-axis load is applied. We publish this spec.
- We measure points in tension and compression to ensure 0.1% symmetry for all low profile load cells.
- Higher output: 4mV/V provides higher signal to noise ratio.

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## INDICATORS & SIGNAL CONDITIONERS

<p style="text-align: center;"><b>9320 General Purpose Indicator</b></p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> <li>• TEDS Plug &amp; Play Ready!</li> <li>• 7 1/2 digit LCD display</li> <li>• Environmentally sealed</li> </ul> 	<p style="text-align: center;"><b>9820 General Purpose Indicator</b></p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> <li>• 5 digit bipolar LED display</li> <li>• Nonlinearity, <math>\pm 0.01\%</math></li> <li>• Front panel shunt calibration</li> </ul> 	<p style="text-align: center;"><b>9830 High Speed Digital Indicator</b></p> <ul style="list-style-type: none"> <li>• 120 readings per second</li> <li>• Programmable analog output</li> <li>• Front panel shunt calibration</li> </ul> 
<p style="text-align: center;"><b>9834 High Level Input Digital Indicator</b></p> <ul style="list-style-type: none"> <li>• 120 readings per second</li> <li>• Peak and valley monitoring</li> <li>• Remote and front panel tare</li> </ul> 	<p style="text-align: center;"><b>9840 Intelligent Indicator</b></p> <p style="text-align: center;">TEDS Plug &amp; Play Ready!</p> <ul style="list-style-type: none"> <li>• TEDS Plug &amp; Play Ready</li> <li>• 1 or 2 channel</li> <li>• USB port</li> </ul> 	<p style="text-align: center;"><b>9860 TEDS Indicator</b></p> <p style="text-align: center;">TEDS Plug &amp; Play Ready!</p> <ul style="list-style-type: none"> <li>• TEDS Plug &amp; Play Ready</li> <li>• 150 conversions per second</li> <li>• Bidirectional RS232</li> </ul> 
<p style="text-align: center;"><b>9850 Multi-Channel Indicator</b></p> <ul style="list-style-type: none"> <li>• Works with torque sensors, load cells, encoders, LVDTs and speed pickups</li> <li>• 2000 readings/second</li> <li>• Includes graphical logging software</li> </ul> 	<p style="text-align: center;"><b>500 In-Line Signal Conditioner</b></p> <ul style="list-style-type: none"> <li>• DC powered</li> <li>• <math>\pm 5</math> VDC or 4-20 mA</li> <li>• Small size</li> </ul> 	<p style="text-align: center;"><b>CX Load Cell Simulator</b></p> <ul style="list-style-type: none"> <li>• High accuracy load cell simulator</li> <li>• Special low thermal emf construction</li> <li>• Each unit individually calibrated, aged and recalibrated</li> </ul> 
<p style="text-align: center;"><b>CSC Cable Integral Inline Signal Conditioner</b></p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> <li>• IP67 stainless steel enclosure</li> <li>• CE approved</li> <li>• Zero and span adjustments</li> <li>• 1 kHz bandwidth</li> </ul> 	<p style="text-align: center;"><b>SGA AC/DC Powered Signal Conditioner</b></p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> <li>• User selectable analog output <math>\pm 10V</math>, <math>\pm 5V</math>, 0-10V, 0-5V, 0-20 mA, 4-20 mA</li> <li>• 110 VAC, 220 VAC or 18-24 VDC power</li> <li>• Selectable full scale input range 0.06 to 30 mV/V</li> </ul> 	<p style="text-align: center;"><b>Internal Amplified Load Cells</b></p> <ul style="list-style-type: none"> <li>• Capacities from 300 to 2000K lbf</li> <li>• Available in 2 or 3 wire configurations</li> <li>• 0-5V, 0-10V or 4-20 mA</li> </ul> <p style="text-align: right;"><i>3-Wire Shown</i></p> 
<p style="text-align: center;"><b>DMA DIN Rail Mount Signal Conditioner</b></p> <ul style="list-style-type: none"> <li>• User selectable analog output <math>\pm 10V</math>, <math>\pm 5V</math>, 4-20 mA</li> <li>• 10-28 VDC power</li> <li>• Selectable full scale input range 5-50 mV</li> <li>• DIN Rail Mountable</li> </ul> 	<p style="text-align: center;"><b>INF-USB Universal Serial Bus Output Module</b></p> <ul style="list-style-type: none"> <li>• USB connection to load and torque transducers</li> <li>• Fast 5000 Hz Sample rate</li> <li>• Graphing and logging software included</li> <li>• Works with mV/V, <math>\pm 5V</math> DC and 4-20 mA output transducers</li> </ul> 	<p style="text-align: center;"><b>DCA Vehicle Compatible Signal Conditioner</b></p> <ul style="list-style-type: none"> <li>• 10-28 VDC power</li> <li>• NEMA 4X enclosure</li> <li>• User Selectable analog output <math>\pm 10V</math>, <math>\pm 5V</math> or 4-20mA</li> </ul> 

### What makes our products outperform our competitors?:

- We make our own strain gages.
- Hot and cold thermal compensation results in better performance at both extremes of the thermal curve.
- Vast capabilities from 50 grams to 2 million pounds , 0.01% to 0.5% accuracy, millivolt, current or voltage outputs.
- Same day shipping on most standard products.
- Over 40 years experience.