

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



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480-948-5555 • 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;">9320 General Purpose Indicator</p> <p style="text-align: center;">CE</p> <p style="text-align: center;">TEDS Plug & Play Ready!</p> <ul style="list-style-type: none"> • TEDS Plug & Play Ready • 7 1/2 digit LCD display • Environmentally sealed 	<p style="text-align: center;">9820 General Purpose Indicator</p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> • 5 digit bipolar LED display • Nonlinearity, $\pm 0.01\%$ • Front panel shunt calibration 	<p style="text-align: center;">9830 High Speed Digital Indicator</p> <ul style="list-style-type: none"> • 120 readings per second • Programmable analog output • Front panel shunt calibration 
<p style="text-align: center;">9834 High Level Input Digital Indicator</p> <ul style="list-style-type: none"> • 120 readings per second • Peak and valley monitoring • Remote and front panel tare 	<p style="text-align: center;">9840 Intelligent Indicator</p> <p style="text-align: center;">TEDS Plug & Play Ready!</p> <ul style="list-style-type: none"> • TEDS Plug & Play Ready • 1 or 2 channel • USB port 	<p style="text-align: center;">9860 TEDS Indicator</p> <p style="text-align: center;">TEDS Plug & Play Ready!</p> <ul style="list-style-type: none"> • TEDS Plug & Play Ready • 150 conversions per second • Bidirectional RS232 
<p style="text-align: center;">9850 Multi-Channel Indicator</p> <ul style="list-style-type: none"> • Works with torque sensors, load cells, encoders, LVDTs and speed pickups • 2000 readings/second • Includes graphical logging software 	<p style="text-align: center;">500 In-Line Signal Conditioner</p> <ul style="list-style-type: none"> • DC powered • ± 5 VDC or 4-20 mA • Small size 	<p style="text-align: center;">CX Load Cell Simulator</p> <ul style="list-style-type: none"> • High accuracy load cell simulator • Special low thermal emf construction • Each unit individually calibrated, aged and recalibrated 
<p style="text-align: center;">CSC Cable Integral Inline Signal Conditioner</p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> • IP67 stainless steel enclosure • CE approved • Zero and span adjustments • 1 kHz bandwidth 	<p style="text-align: center;">SGA AC/DC Powered Signal Conditioner</p> <p style="text-align: center;">CE</p> <ul style="list-style-type: none"> • User selectable analog output $\pm 10V$, $\pm 5V$, 0-10V, 0-5V, 0-20 mA, 4-20 mA • 110 VAC, 220 VAC or 18-24 VDC power • Selectable full scale input range 0.06 to 30 mV/V 	<p style="text-align: center;">Internal Amplified Load Cells</p> <ul style="list-style-type: none"> • Capacities from 300 to 2000K lbf • Available in 2 or 3 wire configurations • 0-5V, 0-10V or 4-20 mA <p style="text-align: right;">3-Wire Shown</p> 
<p style="text-align: center;">DMA DIN Rail Mount Signal Conditioner</p> <ul style="list-style-type: none"> • User selectable analog output $\pm 10V$, $\pm 5V$, 4-20 mA • 10-28 VDC power • Selectable full scale input range 5-50 mV • DIN Rail Mountable 	<p style="text-align: center;">INF-USB Universal Serial Bus Output Module</p> <ul style="list-style-type: none"> • USB connection to load and torque transducers • Fast 5000 Hz Sample rate • Graphing and logging software included • Works with mV/V, $\pm 5V$ DC and 4-20 mA output transducers 	<p style="text-align: center;">DCA Vehicle Compatible Signal Conditioner</p> <ul style="list-style-type: none"> • 10-28 VDC power • NEMA 4X enclosure • User Selectable analog output $\pm 10V$, $\pm 5V$ or 4-20mA 

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.

ROTARY TORQUE

T2 Precision, T4 General Purpose

- T2 Capacities from 0.1 to 20K Nm (0.88 to 177K lb-in)
- T4 Capacities from 0.1 to 1K Nm (0.88 to 8.85K lb-in)



T3 Precision, T5 General Purpose Pedestals

- T3 Capacities from 0.1 to 20K Nm (0.88 to 177K lb-in)
- T5 Capacities from 0.1 to 1K Nm (0.88 to 8.85K lb-in)



T6 Dual Range, T7 Dual Range Pedestal

- T6 Capacities – 10:1 ratio (5/0.5 to 20K/2K Nm) (44.3/4.43 to 177K to 17.7K lb-in)
- T7 Capacities – 10:1 ratio (5/0.5 to 20K/2K Nm) (44.3/4.43 to 177K to 17.7K lb-in)



HRDT High Resolution Digital Telemetry Rotary Torque Transducer

- Capacities from 250 to 10K Nm (443 to 88,500 lb-in)
- Full 18-bit useable resolution (24 bit internal)
- 2,000 results per second
- Bearingless non-contact design
- Outputs include fully scalable $\pm 5V$, $\pm 10V$, 4-20mA, Frequency, USB



T12 Square Drive & T15 Hex Drive

- T12 Capacities from 0.10 to 5K Nm (0.88 to 44K lb-in)
- T15 Capacities from 0.2 to 20 Nm (1.77 to 177 lbf-in)



T8 ECO

- Capacities from 0.2 to 200 Nm (1.77 to 1.77K lb-in)
- Stainless steel shaft
- ± 5 VDC output



T22 Pulley

- Capacities from 20 to 5K Nm (177 to 44K lb-in)
- ± 5 VDC output
- Digital electronics



T25 Contactless USB

- Capacities from 0.5 to 1K Nm (44.3 to 8.85K lb-in)
- Supply & output via USB
- Data stored as .csv or .bmp file



RT10E & RT12E High Capacity & RT10F & RT12F Flange Mount

- RT10E Capacities from 3 to 450K Nm (25 to 2M lb-in)
- RT12E Capacities from 0.1 to 1.4 Nm (10 to 200 oz-in)
- RT10F & RT12F Capacities from 1K to 4M lb-in



RT10E Shown

REACTION TORQUE

MRT Miniature Reaction

- Capacities from 0.2 to 20K Nm (1.77 to 177 lb-in)
- Small size – 1.6 in OD x 1.25 in
- Excellent linearity & repeatability



5400 Series Flange Style

- Capacities from 500 to 500K lb-in (56 to 656K Nm)
- High torsional stiffness
- Flange mount



TS11 Flange Style

- Capacities from 10 to 20K Nm (88.5 to 177K lb-in)
- Compact
- Thru-hole design



TS12 Shaft Style

- Capacities from 0.005 to 20K Nm (0.04 to 177K lb-in)
- Stainless steel shafts
- Compact



TS14 Square Drive

- Capacities from 2 to 5K Nm (17.7 to 44.2 lbf-in)
- Simple operation – no moving parts
- Useful for auditing fastener torques



MRT2 Miniature Reaction Torque Transducer

- Capacities from 10 to 50 Nm (2.75 x 2.25 in)
- Excellent linearity and repeatability
- Low deflection - high torsional stiffness

