

Interface

Summary Catalog



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interface
FORCE MEASUREMENT SOLUTIONS

The World Leader in Force Measurement Solutions™



LOWPROFILE® LOAD CELLS

The Interface LowProfile® Load Cell pancake-style shear beam cell design is world-renowned for durability, accuracy, and performance. This design resembles two shear beam cells end-to-end, exhibiting the stability of a doubled-ended shear beam and augmented by the fact that the circular design is equivalent to four double-ended cells. Thus, it provides stability in eight directions at the center point. A base is recommended and is bolted to the flexure around its outside rim. The base is a flat surface, guaranteed to provide optimum support for the flexure. The use of a base ensures the exceptional performance in the Interface LowProfile series, as each load cell is built, evaluated, and calibrated with the base. One process step that is standard in the LowProfile series is the adjustment to extraneous load sensitivity. Although the design itself cancels out the built of this sensitivity, Interface goes one step further and adjusts each cell to minimize it even more.



1000 Fatigue-Rated Universal LowProfile® Load Cell
250 lbf to 50K lbf
1.25 kN to 225 kN
Fully Reversed High Cyclic Loading



1000 High Capacity Fatigue-Rated Universal LowProfile® Load Cell
100K lbf to 1,000K lbf
450 kN to 4,448 kN
Fully Reversed High Cyclic Loading



1100 Ultra Precision Very High Accuracy
300K lbf to 200K lbf
1.33 kN to 890 kN



1101 Compression-Only Ultra Precision Very High Accuracy
1K lbf to 50K lbf
4.45 kN to 222 kN



1200 Standard Precision Universal LowProfile Load Cell
300 lbf to 100K lbf
1.33 kN to 450 kN



1200 High Capacity Standard Precision LowProfile Load Cell
200K lbf to 2,000K lbf
890 kN to 8,896 kN



1201 Compression-Only Standard Precision
1K lbf to 400K lbf
4.45 kN to 1,779 kN



WTS 1200 Standard Precision LowProfile® Wireless Load Cell
300 lbf to 2,000K lbf
1.33 kN to 8,896 kN



1200 & 1201 3-Wire Amplified Load Cell Universal or Compression-Only
300 lbf to 100K lbf
2 kN to 445 kN



1200 & 1201 Series IO-Link Universal and Compression-Only
300 lbf to 100K lbf
2 kN to 445 kN



1208 Flange Mount Standard Precision
30K lbf to 330K lbf
133 kN to 1,468 kN



1331 Compression-Only
100K lbf
450 kN



1500 Compact Low Capacity
25 lbf to 300 lbf
111 N to 1.33 kN



1600 Gold Standard® Calibration
500 lbf to 200K lbf
2.22 kN to 900 kN
4% lower load limit per ASTM E74



1601 Gold Standard® Calibration Compression-Only
1K lbf to 100K lbf
4.45 kN to 445 kN



1606 Gold Standard® Calibration Low Capacity Universal
50 lbf to 300K lbf
222 kN to 1,330 kN



1700 Flange Mount
220 lbf to 14K lbf
1 kN to 63 kN
Mounts Directly to Cylinders



1800 Platinum Standard® Calibration
 1.1K lbf to 55K lbf
 4.89 kN to 245 kN
 Capable of 2% lower load limit per ASTM E74



2400 Standard Stainless Steel
 100 lbf to 50K lbf
 0.44 kN to 250 kN
 Environmentally Sealed
 Hermetically Sealed Available



2404 Standard Stainless Steel 2-Wire Amplified
 100 lbf to 5K lbf
 0.44 kN to 23 kN
 Internally Amplified
 with 4-20 mA Output



3200 Precision Stainless Steel
 2.5K lbf to 100K lbf
 11.1 N to 445 kN
 Hermetically Sealed



3201 Precision Stainless Steel Compression Only
 5K lbf to 100K lbf
 25 kN to 445 kN
 Hermetically Sealed



BPL Ultra Low Height Compression Only
 50 lbf to 500 lbf
 250 N to 2,500 N
 Self-Centering in all Directions
 High Output 4 mV/V



SSLP Stainless Steel Low Profile Universal
 562 lbf to 1,124K lbf
 2.5 kN to 5,000 kN



WSSCLC Stainless Steel Low Profile Compression Load Cell
 220 lbf to 440.9K lbf
 100 kg to 200 MT

OTHER TYPES OF LOAD CELLS

Here at Interface we manufacture more than 60 different types of load cells and Interface Mini's™. We have capacities ranging from 1 lbf / 500 gf to 2 million lbf / 9,000 kN. Our facility produces them in several shapes and sizes. These models include thru-hole, canister, rod end, downhole, column, coil tubing, load buttons, and load washers, which all use our proprietary alloy strain gages. This helps us produce the most accurate and reliable data possible. Therefore, with the wide variety of load cell specs we have in stock, most customers are able to use an off-the-shelf application.



2000 High Precision Canister
 50K lbf to 1M lbf
 630 kN to 4450 kN



2160 High Capacity Column
 50K lbf to 1M lbf
 630 kN to 4450 kN



2161 High Capacity Compression Only Column
 50K lbf to 1M lbf
 630 kN to 4450 kN



2200 Column
 50K lbf to 1M lbf
 630 kN to 4450 kN



2300 Column
 50K lbf to 1M lbf
 630 kN to 4450 kN



A4200/A4600 WeighCheck™
 2.5 lbf to 50K lbf
 11.1 kN to 222 kN



ICPA Stainless Steel Compression Only
 4.4K lbf to 2,204K lbf
 2 MT to 1K MT



ICPW Stainless Steel Wireless Compression Only
 110K lbf to 2,204K lbf
 50 MT to 1K MT



IPCD Pressure Compensated Downhole
 10K lbf
 44.5 kN
 High accuracy
 Maintenance free



ITCA Tension and Compression
2.2 lbf to 330.6K lbf
1 MT to 150 MT



LWPF2 High Capacity Press Force Washer Load Cell
22.5K lbf to 157K lbf
100 kN to 700 kN



WSSCLC-MOUNT Weighing Assembly
220 lbf to 440.9K lbf
100 kg to 200 MT



WMC Rod End Load Cell
15K lbf to 200K lbf
65 kN to 900 kN

INTERFACE MINI™ LOAD CELLS

Interface Mini™ load cells are used for light touch, light weight, or for less space. Our miniature load cells provide exceedingly accurate measurements similar to our full-size load cells with proprietary alloy strain gages. All of our Miniature beam load cell, Miniature Sensor, load button, load washer, tension force load cells, S-type load cells, and sealed stainless steel load cells can all be ordered in different sizes. Capacities are available as low as 0.11 lbf / 0.5 N and as high as 100 kN.



ConvexBT Load Button Load Cell
5 lbf to 1K lbf
22.24 N to 4.44 N



LBM/LBMP/LBMU Load Buttons
2.25 lbf to 50K lbf
0.01 kN to 130 kN



LWCF Clamping Force Load Washer
3.37 lbf to 33.7K lbf
15 kN to 1,500 kN



LWHP14/LWHP18 Precision Load Washers
11.2 lbf to 1,124K lbf
0.05 kN to 5,000 kN



LWPF1 Press Force Load Washer Load Cell
450 lbf to 22.5K lbf
2 kN to 100 kN



LWMH1/LWMH2 Load Washers with Mounting Holes
45 lbf to 4.5K lbf
0.2 kN to 20 kN



LW Load Washer
5 lbf to 135K lbf
0.02 kN to 600 kN



MB/MBP Mini Beam and Overload Protected Mini Beams
2.5 lbf to 250 lbf
5 N to 1.25 kN
Safe Overload to 10x Capacity



MBI Overload Protected Miniature Beam Load Cell
2 lbf to 10 lbf
10 N to 50 N
Safe Overload to 10x Capacity



MBS Parallelogram
2.2 lbf to 100 lbf
9.8 N to 445 N



MCC Miniature Compression
112.4 lbf
500 N



MTFS Miniature Tension Force
225 lbf to 6.7K lbf
1 kN to 30 kN



PBL1/PBL2/PBL3 Pillow Block Load Bearing Load Cell
1.1K lbf to 22.5K lbf
5 kN to 100 kN



REC Rod End
1K lbf to 50K lbf
5 kN to 220 kN



SML Low Height S-Type
5 lbf to 2000 lbf
22 N to 9 kN
5 lbf, 10 lbf, 5 N, & 45 N Models
Feature 10x Overload Protection



SM S-Type
10 lbf to 1000 lbf
50 N to 5000 N



SSM/SSM2 Sealed S-Type
50 lbf to 5K lbf
200 N to 25 kN
Available with
Fatigue Rated Options



SuperSC Miniature S-Type
25 lbf to 1,000 lbf
100 N to 5 kN



ULC Ultra Low Capacity
0.11 lbf to 0.45 lbf
0.5 N to 2 N
Overload Protected



WMC/WMCP/WMCFP Sealed Stainless Steel
1.1 lbf to 10K lbf
500 gf to 45 kN
Overload Protected
Male Threads



SMT Overload Protected S-Type
1.1 lbf to 450 lbf
5 N to 2000 N
500% +1,000% FS Safe Overload



SMTM Micro S-Type
5 lbf to 50 lbf
20 N to 200 N
Micro-sized 3/4" x 3/4" x 1/4"
1,000% Safe Overload



SPI Platform Scale
3 lbf to 150 lbf
13.34 N to 667.2 N



SSB Sealed Beam
50 lbf to 10K lbf
222 N to 44.48 kN



WSSB Welded Stainless Steel IP68 Environment Protected S-Beam
551 lbf to 44.1K lbf
250 kg to 20 MT

MULTI-AXIS LOAD CELLS

Multi-Axis Sensors are designed to measure a multiple of forces and moments simultaneously with a single load cell sensor. These sensors provide multiple bridges that precisely measure the applied force from one direction with little or no cross-talk from the force or moment. Our 3-axis, 6-axis, and axial torsion load cells provide the ultimate in force and torque measurement. We can measure forces simultaneously in three mutually perpendicular axes, with the 6-axis load cells also measuring torque around those axes.



1216 2-Axis Axial Torsion Flange Mount Load Cell
Force: 250 lbf to 2K lbf
Torque: 125 lbf-in to 1K lbf-in
Force: 1.11 to 8.9 kN
Torque: 14.1 Nm to 113 Nm



1516 2-Axis Axial Torsion LowProfile Load Cell
Force: 100 lbf
Torque: 50 lbf-in
Force: 444.8 N
Torque: 5.6 Nm



2816 2-Axis Axial Torsion Flange Mount Load Cell
Force: 3.3 lbf to 15K lbf
Torque: 2K lbf-in to 7.5K lbf-in
Force: 14.6 to 66.7 kN
Torque: 226 Nm to 847 Nm



3-Axis Force
Force: 0.45 lbf to 112K lbf
Force: 2 N to 500 kN



3AFM 3-Axis Force/Torque Load Cells
Force/Torque: 4.5lbf/1.77lbf-in to 45.0lbf/35.4lbf-in
Force/Torque: 20N/200mNm to 200N/4Nm

**3AR Round 3-Axis**

Force: 2.2K lbf to 112K lbf
Force: 10 kN to 500 kN

**5200 XYZ Force & Moment**

Force: 1K lbf to 50K lbf
Moment: 400 lbf-in to 20K lbf-in
Force: 4.45 kN to 222 kN
Moment: 45.2 Nm to 2.26K Nm
Fz, Mx, My

**5600 2-Axis Axial Torsion**

Force: 6K lbf to 180K lbf
Torque: 5K lbf-in to 300 lbf-in
Force: 27 kN to 800 kN
Torque: 560 Nm to 33K Nm
Fz, Mz

**6-Axis Force Torque**

Force: 11.2 to 180K lbf
Torque: 8.85 lbf-in to 354K lbf-in
Force: 50 N to 800K N
Torque: 1 Nm to 40K Nm

**6A55RI 6-Axis Robot Flange Force-Torque Sensor**

Force: 11.24 to 449.62 lbf
Torque: 44.25 to 442.54 lb-in
Force: 50 N to 2 kN
Torque: 5 Nm to 50 Nm

**6ADF 6-Axis DIN Flange-Type**

Force: 20 N to 1.2 kN
Torque: 1 Nm to 60 Nm

**AT101 2-Axis Axial Torsion**

Force: 112 lbf to 3.37K lbf
Torque: 44.3 lbf-in to 266 lbf-in
Force: 0.5 kN to 2 kN
Torque: 5 Nm to 50 Nm

**AT102 2-Axis Axial Torsion**

Force: 2.25K lbf
Torque: 88.5 lbf-in
Force: 10 kN
Torque: 10 Nm

**AT103 2-Axis Axial Torsion**

Force: 2.25K lbf to 4.5K lbf
Torque: 88.5 lbf-in to 177 lbf-in
Force: 10 kN to 20 kN
Torque: 10 Nm to 20 Nm

**AT104 Compact Size Force & Torque**

4.5/0.89 lbf/lbf-in & 11.2/4.4 lbf/lbf-in
20/0.1 N/Nm & 50/0.5 N/Nm

**AT105 Contactless Force & Torque**

22.5/17.7 lbf/lbf-in
56.2/44.3 lbf/lbf-in & 112.4/44.3 lbf/lbf-in
100/2 N/Nm
250/5 N/Nm & 500/5 N/Nm

**TXY 2-Axis Force**

X: 1K lbf to 2K lbf
Y: 500 lbf
X: 4.4 kN to 8.8 kN
Y: 2.2 kN

LOAD PINS

The Interface range of load pins are designed for general use. They are a simple and versatile type of load cell that are used in a large variety of applications, including harsh environments such as sub sea, marine, and offshore. They are easily installed into machines by replacing any existing load bearing pin with no modifications to the equipment required. They are also very easy to install new or retrofit, and have a long design life to offer any years of trouble-free operation. The LP load pin range is entirely custom designed to meet specific customer requirements, and over 5000 different product variants have been manufactured to date. Machined from high tensile stainless steel, they are built to exacting standards and proof loaded to 150% of normal rated load.

**ILMP Standard Load Pin**

1.1K lbf to 3,307K lbf
0.5 MT to 1,500 MT
Keeper Plate Supplied
Environmentally Sealed to IP67
Stainless Steel Construction

**ILPW Standard Load Pin**

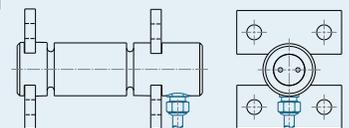
1.1K lbf to 3,307K lbf
0.5 MT to 1,500 MT
Wireless, Keeper Plate Supplied
Environmentally Sealed to IP67
Stainless Steel Construction

**LP Custom Load Pin**

Up to 3,000K lbf
Up to 1,360 MT
Custom Designs Available with Amplification, Submersible, and Wireless

**WTSPL Custom Load Pin**

Up to 3,000K lbf
Up to 1,360 MT
Custom Designs Available with Amplification, Submersible, and Wireless

**Keeper Plates**

How many keeper plates are required 1, 2, 3, or 4?
Get up to 4 optional keeper plates.

TENSION LOAD LINKS

Interface Tension Link series are crafted from high-tensile aluminum and stainless steel and designed for lifting and weighing applications in demanding environments. Engineered to match shackle sizes, our load links are available in capacities ranging from 2.2K lbf to 1.1M lbf (1 to 500 MT) and feature environmental sealing to IP65, IP66, or IP67 standards. Higher capacity ratings can be provided upon request.



ITL Tension Load Link
11K lbf to 220.4K lbf
5 MT to 100 MT
Custom Designs
Available and Submersible



WTSTL Wireless Tension Load Link
11K lbf to 220.4K lbf
5 MT to 100 MT
Custom Designs Available,
Submersible, and Wireless



WTSATL Lightweight Aluminum Wireless Tension Load Link
11K lbf to 661K lbf
5 MT to 300 MT



WTSATL-JR Lightweight and Compact Aluminum Wireless Tension Load Link
2.2K lbf to 10.5K lbf
1 MT to 4.75 MT

Tension Link Benefits Includes:

- Custom designed sizes and ratings available
- Easy to install
- High accuracy
- Compact size
- Lightweight
- Custom sizes and higher capacities available

LOAD SHACKLES

Interface load shackles have been designed for lifting and weighing in rugged or harsh environments. The load shackle pins are manufactured from high tensile carbon steel, while the basic shackle uses the renowned Crosby G2130, G2140 and G2150 series (depending on the load rating). Optional rotating bobbin can be supplied to centralize the load and minimize any point-load effects. Interface also supplies load shackles that are fully submersible for sub-sea and offshore applications, as well as wireless telemetry load shackles.



ISHK-B Bow Type Crosby™ Cabled Load Shackle
2.2K lbf to 2,205K lbf
1 MT to 1K MT
Submersible



ISHK-D 'D' Type Crosby™ Cabled Load Shackle
2.2K lbf to 77.2K lbf
1 MT to 35 MT
Submersible



WTSSHK-B Wireless Crosby™ Bow Load Shackle
26.5K lbf to 265K lbf
12 MT to 120 MT
Submersible and Wireless



WTSSHK-B-HL Wireless Crosby™ Bow Load Shackle
265K lbf to 2,205K lbf
120 MT to 1K MT
Submersible and Wireless



WTSSHK-B-JR Wireless Crosby™ Bow Load Shackle
7.17K lbf to 20.9K lbf
3.25 MT to 9.5 MT
Submersible and Wireless



WTSSHK-D Wireless Crosby™ Load Shackle
2.2K lbf to 77.2K lbf
1 MT to 35 MT
Submersible and Wireless

Load Shackle Benefits Includes:

- Simple installation and operation
- Robust construction
- Ideal for use in harsh environments
- Environmentally sealed to IP67 (higher IP levels available on request)
- Available in ratings from 1 ton to 400 tons (higher ratings available on request)
- Wireless Telemetry System (WTS) compatible



WTS-BS-1-HA Wireless Handheld Display for Transmitters
Unlimited Transmitters

HAZARDOUS ENVIRONMENTS

ATEX Products that have received ATEX certification will have the official “EX” badge, indicating they are safe in explosive atmospheres. The product labels will define the explosive atmospheres where the equipment may be installed as well as any salient safety warnings.

IECEX certification assures that all safety requirements in the IEC standards are met and that explosive atmosphere areas and the personnel working within them are as safe as possible. The product labels will define the explosive atmospheres where the equipment may be installed as well as any salient safety warnings.

NORTH AMERICA ETL mark assures that all safety requirements in the respective country standards are met. The product labels will define the explosive atmospheres where the equipment may be



3410 Intrinsicly Safe LowProfile®
750 lbf to 10K lbf



3411 Intrinsicly Safe Compression Only LowProfile®
750 lbf to 60K lbf
3.37 kN to 267 kN



3416/3432 Coil Tubing Intrinsicly Safe Universal
20K lbf to 60K lbf



3420 Coil Tubing Intrinsicly Safe Universal
40 lbf to 50K lbf



3540 Sealed Column Load Cell with Integral Cable for Hazardous Environments
55K lbf



Hazardous Environment ICPA Stainless Steel & Stainless Steel Wireless Compression Only
4.4 lbf to 2,204K lbf
2 MT to 1K MT



Hazardous Environment ICPW Stainless Steel & Stainless Steel Wireless Compression Only
4.4 lbf to 2,204K lbf
2 MT to 1K MT



Hazardous Environment ILMP Standard Load Pin
1.1K lbf to 3,307K lbf
0.5 MT to 1,500 MT



Hazardous Environment ILPW Standard Load Pin
1.1K lbf to 3,307K lbf
0.5 MT to 1,500 MT



Hazardous Environment LP Custom Load Pin
Up to 3,000K lbf
Up to 1,360 MT



Hazardous Environment WTSLP Custom Load Pin
Up to 3,000K lbf
Up to 1,360 MT



Hazardous Environment ITCA Tension and Compression
2.2 lbf to 330.6K lbf
1 MT to 150 MT



Hazardous Environment ITL Tension Load Link
11K lbf to 220.4K lbf
5 MT to 100 MT



Hazardous Environment WTSTL Wireless Tension Load Link
11K lbf to 220.4K lbf
5 MT to 100 MT



Flame Proof Bow Type Crosby™ Cabled Load Shackle
2.2K lbf to 2,205K lbf
1 MT to 1K MT
Custom Designs, Submersible, and Wireless



Hazardous Environment ISHK-B Bow Type Crosby™ Cabled Load Shackle
2.2K lbf to 2,205K lbf
1 MT to 1K MT



Hazardous Environment ISHK-D 'D' Type Crosby™ Cabled Load Shackle
2.2K lbf to 77.2K lbf
1 MT to 35 MT



**Hazardous Environment
WTSSHK-B Wireless Crosby™
Bow Load Shackle**
26.5K lbf to 265K lbf
12 MT to 120 MT



**Hazardous Environment
WTSSHK-B-HL Wireless
Bow Load Shackle**
265K lbf to 2,205K lbf
120 MT to 1K MT



**Hazardous Environment
WTSSHK-D Wireless Crosby™
Load Shackle**
2.2K lbf to 77.2K lbf
1 MT to 35 MT



**SSMH Selaed
Hazardous Environment
Intrinsically Safe S-Type**
50 lbf to 5K lbf
200 N to 25 kN

ROTARY TORQUE TRANSDUCERS

Interface's rotary torque transducers are used to measure the torque (rotational force) applied to a rotating shaft or component. It's designed to convert mechanical torque into an electrical signal that can be measured and analyzed. Interface rotary torque transducers play a crucial role in ensuring the performance, reliability, and efficiency of rotating machinery by providing accurate measurements of torque under various operating conditions.



AxialTQ® Rotary Torque
885 lbf-in to 88.5K lbf-in
100 Nm to 10K Nm



T1 Torque Coupling
400 lbf-in to 9K lbf-in
50 Nm to 1K Nm
Bearingless



**T2/T4 Ultra and
Standard Precision**
0.88 lbf-in to 177K lbf-in
0.1 Nm to 20K Nm



**T3/T5 Ultra and Standard
Precision Pedestal Mount**
0.88 lbf-in to 177K lbf-in
0.1 Nm to 20K Nm



T6 Dual Range Shaft Style
44.3/4.43 lbf-in to 4.43K/443 lbf-in
5/0.5 Nm to 500/50 Nm



**T7 Dual Range Pedestal
Mount Shaft Style**
44.3/4.43 lbf-in to 885/88.5 lbf-in
5/0.5 Nm to 100/10 Nm



**T8 General Purpose
Shaft Style**
1.77 lbf-in to 1.77K lbf-in
0.2 Nm to 200 Nm



T11 Bearingless
0.04 lbf-in to 1.327K lbf-in
0.005 Nm to 150 Nm



T12 Square Drive
0.88 lbf-in to 44K lbf-in
0.1 Nm to 5K Nm
USB Option Available



T15 Hex Drive
0.88 lbf-in to 44K lbf-in
0.1 Nm to 5K Nm
USB Option Available



**T18 General Purpose
Contactless Low Cost**
88.5 lbf-in to 885 lbf-in
10 Nm to 100 Nm



T22 Pulley Belt
177 lbf-in to 44K lbf-in
20 Nm to 5K Nm
High Roldal



**T23 Shaft Style Contactless
Low Cost**
2.7K lbf-in to 4.4K lbf-in
300 Nm to 500 Nm



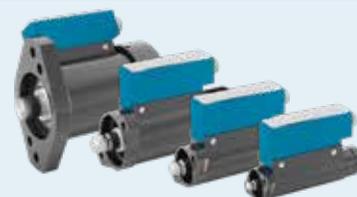
T25 High Speed
0.885 lbf-in to 44.3K lbf-in
0.1 Nm to 5K Nm
USB Option Available



T27 Hollow Flange Bearingless
443 lbf-in to 8.85K lbf-in
50 Nm to 1K Nm



T28 Slip-Ring Drive
8.85 lbf-in to 44.3K lbf-in
55 Nm to 1K Nm



T31, T32, T33, & T34 Spindle Torque
8.85 lbf-in to 4.43K lbf-in
1 Nm to 500 Nm
Speeds Up to 2K RPM Integrated Speed/Angle Measurement

REACTION TORQUE TRANSDUCERS

Interface's reaction torque transducer are specialized sensors used to measure the torque applied to a rotating shaft or component. Unlike rotary torque that typically measure torque directly on the rotating shaft, reaction torque measures torque indirectly through the reaction force generated by the torque application. All Interface reaction torque transducers provide an alternative method for torque measurement when direct measurement on the rotating shaft is not feasible or desirable. They play a vital role in ensuring the performance, safety, and reliability of machinery and equipment across various industries.



5330 Hollow Flange Style
60 lbf-in to 100K lbf-in
6.8 Nm to 11.3K Nm



5350 Solid Flange Style
10 ozf-in to 200 oz-in
0.07 Nm to 1.4 Nm



5355 Solid Flange Style
10 lbf-in to 100K lbf-in
1.13 Nm to 11.3K Nm



5400 Flange Style
1K lbf-in to 500K lbf-in
110 Nm to 55K Nm



MRT Miniature Flange Style
1.77 lbf-in to 177 lbf-in
0.2 Nm to 20 Nm



MRT2 Miniature Overload Protected Flange Style
44.3 lbf-in to 443 lbf-in
5 Nm to 50 Nm



MRTP Miniature Flange Style
1.77 lbf-in
0.2 Nm
7x Overload Protected



MRT2P Miniature Overload Protected Flange Style
1.77 lbf-in to 17.7 lbf-in
0.2 Nm to 2 Nm
3x Overload Protected



TS11 Flange Style
88.5 lbf-in to 177K lbf-in
10 Nm to 20K Nm



TS12 Shaft Style
0.04 lbf-in to 177K lbf-in
0.005 Nm to 20K Nm



TS14 Square Drive
8.85 lbf-in to 44.2K lbf-in
1 Nm to 5K Nm



TS15 Male Square Drive to Flange
1.77 lbf-in to 44.3K lbf-in
2 Nm to 5K Nm



TS16 Female Square Drive to Flange
1.77 lbf-in to 17.7K lbf-in
2 Nm to 2K Nm



TS17 Hex Drive
1.77 lbf-in to 177 lbf-in
0.2 Nm to 20 Nm



TS18 Shaft to Flange
17.7 lbf-in to 17.7K lbf-in
2 Nm to 2K Nm



TS19 Short Flange
443 lbf-in to 88.5K lbf-in
50 Nm to 10K Nm



TS20 Hollow Flange
88.5 lbf-in to 1.77K lbf-in
10 Nm to 200 Nm



TS21 Compact Miniature Keyed Shaft
8.85 lbf-in to 885 lbf-in
1 Nm to 100 Nm



TS22 Low Capacity Miniature
0.005 lbf-in to 20 lbf-in
0.04 Nm to 177 Nm



TSCF C-Face Flange
88.5 lbf-in to 885 lbf-in
10 Nm to 100 Nm



TSQ High Capacity Square Drive
300K lbf-in to 3,000K lbf-in
34K Nm to 340K Nm

INSTRUMENTATION

Interface provides instrumentation such as signal conditioners, output modules, high speed data loggers, portable load cell indicators, weight indicators, and junction box. We also offer full data acquisition and wireless telemetry systems for Load Cell and Torque Transducers. Our Multi-Channel Bridge Amplifier has a 4-Channel Capability, while the INF-USB3 Universal Serial has a Sensor to USB Output Converter.



1280 Programmable Weight Indicator and Controller
Analog Load Cell Scales
Total Scales
Serial Scales
Program Scales



480 Bidirectional Weight Indicator
Digital
Environmentally Protected



4850 Battery Powered Bluetooth Weight Indicator
Digital, Environmentally Protected,
Battery Powered, Bluetooth



920i Programmable Weight Indicator and Controller
Up to 32 Scale Accumulators
Millivolt Calibration
5-Point Linearization



9325, 9325-NU Portable Sensor Display
Digital, Hand Held, Battery Powered,
TEDS Ready



9330 High Speed Portable Display and Data Logger
3750Hz Peak Capture



9825 General Purpose Indicator/ 9825-AI General Purpose Analog Input Indicator
Bipolar, High Speed, Analog



9840-400-1-T-4 4-Channel Intelligent Indicator
Digital 4-Channel
Intelligent Indicator



9840 Calibration Grade Multi-Channel Indicator
Stores Multiple Calibrations



9840C TEDS Read/Write Intelligent Indicator
Stores Multiple Calibrations



9840TQ mV/V Input Torque Transducer Indicator
Digital and Intelligent mV/V Input Torque Transducer Indicator



9845 Rugged Calibration Grade Multi-Channel Load Cell Indicator
Digital, Intelligent, Rugged



9850 Torque Transducer & Load Cell Indicator
25 lbf to 300 lbf
111 N to 1.33 kN



9870 High-Speed High Performance TEDS Ready Indicator
High Speed Digital



9890 Strain Gage, Load Cell, & mV/V Indicator
mV/V Input Indicator



9894 Analog Input Process Indicator
Analog Input Process Indicator



BSC1-HD Single Channel PC Interface Module with Analog Output
Single Channel



BSC1A Strain Gage Amplifier
Single Channel, Very Compact, Light Weight



BSC2 Dual Channel PC Interface Module
Dual Channel



BSC4A Bridge Amplifier and PC Interface Module
4 Channel



BSC6A-HD44 6-Channel Strain Gage Amplifier
6 Channel Analog Output



BTS Bluetooth® Telemetry System
Bluetooth Strain Gage Transmitter



BX3-HD44-CAN/BX3-M12-CAN 3-Channel CANbus AND USB Strain Gage Amplifier
3-Channel Capability



BX6-ETH/CAN 6-Channel CANbus and Ethernet Strain Gage Amplifier
6 Channel



BX6-HD44-ECP Strain Gage Amplifier with EtherCat Protocol
6 Channel



BX8-AS Data Acquisition System and Amplifier
8 Channel



BX8-HD15/ BX8-HD44 Data Acquisition System and Amplifier
8 Channel



CSC/LCSC Environmentally Sealed OEM Inline Signal Conditioner
Analog or Digital Output



CSD Embedded Load Cell Converter and Digitizer Module
RS232, RS485, Modbus, CANbus, CANopen, and ASCII



DIG-USB/DIG-USB-F USB and Fast USB Output Module
Configuration, Calibration, Graphing, Logging, and Display Software



DMA2 DIN Rail Mount Signal Conditioner
10-28VDC Power
Selectable Full Scale
Input Range 5-50mV



ILM In-Line IO-Link Amplifier
In-Line Amplifier



INF-USB3 PC Input Module
Single Channel
mV/V, VDC, or mA Input



INF1 Single Sensor Weight Transmitter and Indicator
RS485, Analog, CANopen, PROFIBUS, Modbus/TCP, Ethernet TCP/IP, Ethernet/IP, PROFINET IO, EtherCAT4



INF4 Two, Three, and Four Sensor Weight Transmitter and Indicator
RS485, Analog, CANopen, PROFIBUS, Modbus/TCP, Ethernet TCP/IP, Ethernet/IP, PROFINET IO, EtherCAT4



ISG Isolated DIN Rail Mount Signal Conditioner
High Accuracy
Isolated power supply



JB104SS 4-Channel Stainless Steel Junction Box
4 Channel Summing Capability



JB1100 4-Channel Advanced Signal Conditioning Transmitter Indicator and Junction Box
Four independent scales or four load cell inputs



SGA AC/DC Powered Signal Conditioner
AC/DC Powered
Millivolt to Analog Converter



SI-USB4 4 Channel USB interface Module
mV/V or mA Input



VSC2 Rugged Compact Vehicle Powered Signal Conditioner
High Accuracy Precision
Differential Amplifier

WIRELESS

Interface's Wireless Telemetry System (WTS) is a series of wireless sensor transmitters, receivers, and displays with high accuracy and high-quality measurement with simple but powerful configuration and monitoring with the WTS ToolKit software. The Wireless Telemetry System is compatible with Interface load cells, torque transducers, multi-axis sensors, load pins, load shackles, and tension links. The system easily replaces wired systems, reducing installation, and maintenance costs.



WTS-AM-1E/WTS-AM-1F Wireless Strain Bridge Transmitter Module
For Strain Bridge Input
For Fast Measurements



WTS-AM-2/WTS-AM-3 Wireless Voltage Sensor Transmitter
For Voltage Input
For mA Input



WTS-ANTA/ANTB/ANTC/ANTD/ANTE Telemetry Antenna Options
Compatible WTS Products Only



WTS-AR Wireless Repeater Module
Extends and Enhances Range of WTS Devices



WTS-BS-1/WTS-BS-1-HA Wireless Handheld Display for Transmitters
Unlimited Transmitters
Up to 12 Transmitters



WTS-BS-1-HS Wireless Handheld Display for Transmitters
Single Transmitter



WTS-BS-2 Wireless Base Station with Industrial Interfaces
Controllable Baud Rates
Configure and Calibrate WTS Devices



WTS-BS-3E/WTS-BS-4 Wireless Base Station with USB Interface
Comes with WTS Toolkit Software and Log 100 Software



WTS-BS-5 Wireless Analog Output Receiver Module
Provide Analog Output for WTS Acquisition Modules



WTS-BS-6 Wireless Telemetry Dongle Base Station
Includes WTS Toolkit Software and Log 100 Software



WTS-GW1 Wireless Gateway with Modbus and ASCII Serial Output
Capable of Gathering Data from Up to 100 Acquisition Modules



WTS-LD1/WTS-LD2 Wireless Large LED Display
Large Screen with 4-digit/6-digit
4 in (100/102 mm) LED display



WTS-PR1 Wireless Telemetry Printer
Prints Screen from the Handheld WTS-BS-1-HA



WTS-RM1 Wireless Relay Output Receiver Module
Accepts Up to 16 Devices



WTS-SO Wireless Interface with ASCII Serial Output
Serial Output to Printer, Display, PC or PLC



WTS-WSS Wireless Wind Speed Transmitter Module
Constantly Monitors Average Wind Speed



WWWP Wireless Wheel Weighing Platform
Up to 16 Individual Pads Communicate Wireless to the Indicator

CALIBRATION EQUIPMENT

Interface Load Cell Calibration Equipment is available in design configurations for a wide range of rigid and portable systems. We offer strain gage load cell calibration systems for nearly any force measurement application including custom designs. Our GS-SYS Gold Standard® Calibration System consists of a four-post rigid load frame, proprietary load feedback loop, signal conditioning hardware, and fully-automated calibration software for the highest accuracy and lowest uncertainty available. Portable versions of the GS-SYS system are also available for calibrating load cells and test equipment.



CX Precision mV/V Transfer Standard
Precision mV/V Output
Analog or Digital Output



SimulatorECX Precision mV/V Transfer Standard
Precision mV/V Output
Analog or Digital Output



GS-SYS03 Gold Standard® Portable Load Cell Calibration System
Reduces Calibration Time 50-90%
Automatic Calibration and Archiving
Custom Report Writer



GS-SYS04 Gold Standard® Portable E4 Machine Calibration System
Reduces Calibration Time 50-90%
Automatic Calibration and Archiving



GS-SYS Gold Standard® Calibration System Load Frame
Capacities up to 100K lbf



IFVF Interface Force Verification Frame
Up to 5,000 lbf capacity
Portable, Lightweight, and Accurate



Thread Adapters
Female - Male
Male - Male
Female - Female



Post Adapters and Platens
Post - Male
Post - Female
Compression Platens

Calibration & Repair Services

- NIST Traceability
- ISO 17025 Accredited
- ASTM E74 Calibration
- ANSI/NCSL Z540
- MIL-STD-45662A



Accreditations

Interface is A2LA accredited (#1991.01) to perform the most accurate universal calibrations on all Interface and competitive force and torque transducers in 5 days

ACCESSORIES

Interface offers a wide variety of sensor and instrumentation accessories from shielded cable and mating connectors to calibration adapters and resistors. We also offer precisely machined clevises, jam nuts, thread adapters, mating connectors, mounting plates, and rod end bearings provide rigid connections and reduce alignment error. Load cell and torque transducer accessories are available in many design configurations and will help you complete your project design with the highest performance and the least amount of trouble possible.



CT Cable Assemblies
For connecting transducers to instrumentation
Standard and custom lengths
Shielded cable



CA Calibration Adapters
Improves accuracy
Spherical end for compression loading
Metric sizes available



CLV Clevises
Precision machined
Commonly used with REBs
Male threads



9800 Series Single and Dual Channel Internal Mount Enclosures
Internally Mounted Plastic
NEMA 4 Enclosure for 1/8 Din Rail



9800 Series Single and Dual Channel Benchtop Enclosures
Designed For Benchtop and Laboratory Use



9800 Series Single and Dual Instrument Enclosures
NEMA 4 Enclosure Provides a Convenient way to Mount Single and Dual Instruments



EVALUATOR 3 Load Cell Simulator
Used in testing, troubleshooting mV/V instrumentation



IF500 Load Cell Simulator
Set "ANY" mV/V Value within ± 5 mV/V
State-of-the-Art, Microprocessor Based Design



JN Jam Nuts
Used with REBs, clevises and calibration adapters
Flat, parallel surfaces
Standard thread sizes



LB Load Cell Load Buttons
Converts universal cell to compression only
Spherical loading surface



LCA Load Cell Analyzer
User-friendly diagnostic tool designed for fast and accurate testing of load cells in the field or on the bench



LowProfile Load Cell Base Kits
Heat Treated, High Strength Bases
Available in Standard Sizes



MC/CN Mating Connectors
Interconnects between load cell and Instruments



TP/BP Mounting Plates
Eliminates the requirement for expansion assemblies in most installations



RCAL Resistors
Precision wire-wound
5 ppm/°C, 0.01%
Used for shunt calibration



REB Rod End Bearings
For tension applications
Reduces alignment error
Metric sizes available



TA/THD Thread Adapters
Adapts male to female
Common Interface thread sizes
Adapts one thread size to another



TEDS Transducer Electronic Data Sheet
Provides Sensor with Electronic Identification Plug & Play Ready



T2, T4, & T6 Floating Mount Single and Double Flex Couplings
Keyed
Shrink Disk



T3, T5, & T7 Pedestal Mount Double Flex Couplings
Keyed
Shrink Disk
Clamping Ring



T8 Floating Mount Single and Double Flex Couplings
Keyed
Clamping Ring



T8 Pedestal Mount Double Flex Couplings
Keyed
Shrink Disk
Clamping Ring



T11 Floating Mount Single Flex and Flex Disk Coupling
Keyed



T25 Floating Mount Single Flex Couplings
Clamping Ring
Shrink Disk



T25 Pedestal Mount Single and Double Flex Couplings
Keyed
Shrink Disk
Clamping Ring

CALIBRATION SERVICES

Calibration is important based on many different factors, including continued performance, safety, and compliance with ISO or industry specific standards. Interface's standard recommended calibration interval is 12 months. The frequency of calibrations should be determined by the customer based on the following factors that may affect measurement accuracy:

- Measurement quality and allowable tolerance range
- Level of stress to which the equipment is subjected
- Stability of past calibrations
- Required measuring accuracy
- Quality assurance requirements



Once these factors are established and the stability of past calibrations are reviewed, the customer may then establish the calibration frequency:

- Per ASTM E74 Standard
- Normal Use – Calibration every 12 months.
- Severe Use – Calibration on a quarterly to monthly basis.
- Special Service – As recommended after consultation with an Interface Technical Service team member.

We Offer The Broadest Capability And Highest Quality Of Calibration Services Available. We can service equipment from just about any manufacturer for the devices listed:

- Load Cells
- Load Washers
- Load Pins
- Rotary Torque Transducers
- Load Buttons
- Reaction Torque Transducers
- Crane Scales and Dynamometers
- Rod End Load Cells
- Tension Load Links

REPAIR SERVICES

Interface provides repair services on load cells and other force measurement devices from nearly any manufacturer. We perform more than 100,000 calibrations annually on devices shipped to Interface for recalibration, as part of the post-repair process. Repairs include a complete evaluation of the device prior to repair and calibration upon completion.

Interface offers repair services for damaged or suspect load cells with highly trained and experienced repair technicians. Each load cell is fully inspected and tested in order to diagnose the problem(s). Following our evaluation, we will provide you with a list of issues and our recommendation(s), proposing the most cost effective solution for you.

- Complete complimentary evaluation prior to repair and calibration.
- Connector replacement on any manufacturers' load cell subject to connector availability, excludes welded connectors.

INTERFACE CUSTOM SOLUTIONS

Interface Custom Solutions partners with you, deploying our expert engineering, design and manufacturing resources to create the exact solution for your specific requirements. Our depth of experience is available to develop custom force and torque applications that meet your exact needs. We can do it for single products, OEM solutions and complete systems. It's what we have been doing since 1968.

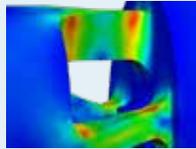
Our robust capabilities include customization of complete solutions, designed with FEA (finite element analysis), as well as proprietary Interface strain gages sensor products. All is done in our state-of-the-art machine shop headquartered in the US, supported by our world-class assembly and calibration team. Most important, our custom solutions follow all industry leading quality standards that deliver precision-based accuracy measurement solutions.

Designed With FEA (Finite Element Analysis)

Interface engineers use Finite Element Analysis (FEA) to reduce the number of physical prototypes and optimize components in the design phase. The result is to develop better products in the fastest time possible.



FEA Mesh



FEA Simulation



Proprietary Interface Strain Gages

At Interface, we manufacture our own strain gages. These strain gages are made from a unique proprietary alloy. Our engineers will create a strain gage design that will optimize the performance of your custom transducer.

State-Of-The-Art Machine Shop

Interface's state-of-the-art machining center and highly skilled machinists and CNC programmers have many years' experience creating and building a variety of sensors. Our machined components are produced at the highest quality.



Assembly And Calibration

Interface team members are industry experts who have assembled and calibrated sensors for many years. You can be sure that when your product is made by the Interface team, it will be reliable and meet the needs of your application for years to come.

ICON LEGEND



TEDS - Plug & Play Ready



Mobile App Available



ATEX Certification



International Laboratory Accreditation Cooperation



USB Option Available



Bluetooth®



IECEx Certification



International Organization for Standardization



Software Available



Wireless



Assessment Accreditation Services

Interface is the world's trusted leader in technology, design and manufacturing of force measurement solutions.

Our clients include a "who's who" of the aerospace, automotive and vehicle, medical device, energy, industrial manufacturing, test and measurement industries.

Interface engineers around the world are empowered to create high-level tools and solutions that deliver consistent, high quality performance. These products include load cells, torque transducers, multi-axis sensors, wireless telemetry, instrumentation and calibration equipment.

Interface, Inc., was founded in 1968 and is a US-based, woman-owned technology manufacturing company headquartered in Scottsdale, Arizona.