

Interface

Summary Catalog



Summary Catalog v2.0 10-17-2025

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
250 lbf to 1,000K lbf
1.25 kN to 4,448 kN
Fully Reversed High Cyclic Loading



1100 Ultra Precision Very High Accuracy
300 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
300 lbf to 2,000K lbf
1.33 kN to 8,896 kN



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



1200 & 1201 Series IO-Link Universal & 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



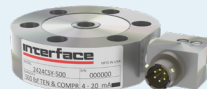
1700 Flange Mount
220 lbf to 14K lbf
1 kN to 63 kN
Mounts Directly to Cylinders



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
Hermetic Seal 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



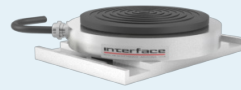
3200 Precision Stainless Steel
2.5K lbf to 100K lbf
11.1 N to 445 kN
Hermetically Sealed



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



Internally Amplified Load Cells
3-Wire Amplified Tension & Compression Load Cells



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



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



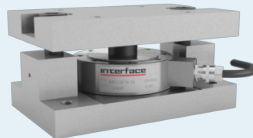
2161 High Capacity Compression Only Column
50K lbf to 1M lbf
630 kN to 4450 kN



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



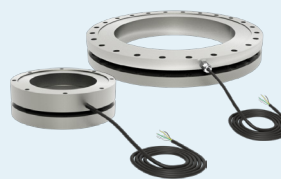
ICPW Stainless Steel Wireless Compression Only
110K lbf to 2,204K lbf
50 MT to 1K MT



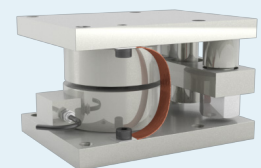
IPCD Pressure Compensated Downhole
10K lbf
44.5 kN
High accuracy
Maintenance free



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



LWPF1/LWPF2 Precision Load Washers
11.2 lbf to 1,124K lbf
0.05 kN to 5,000 kN



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



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

INTERFACE MINI™ LOAD CELLS

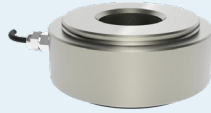
Interface Mini™ load cells are used for light touch, light weight, or for less space. Our miniature load cells provide exceedingly accurate measurements similar to our full-size load cells with proprietary alloy strain gages. All of our Miniature beam load cell, Miniature Sensor, load button, load washer, 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/LBS
Miniature Load Buttons
5 lbf to 1K lbf
22.24 N to 4.44 kN



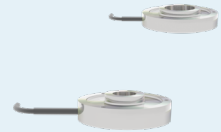
LBM/LBMP/LBMU
Load Buttons
2.25 lbf to 50K lbf
0.01 kN to 130 kN



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



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/MBI Mini Beam
& Overload Protected
Mini Beams
2 lbf to 2500 lbf
10 N to 1.25 kN
Safe Overload to 10x Capacity



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



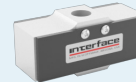
MCC Miniature
Compression
112.4 lbf
500 N



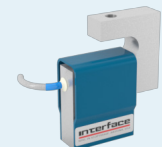
MTFS Miniature
Tension Force
225 lbf to 6.7K lbf
1 kN to 30 kN



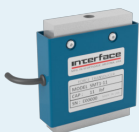
PBL1/PBL2/PBL3 Pillow
Block Load Bearing Load Cell
1.1K lbf to 22.5K lbf
5 kN to 100 kN



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



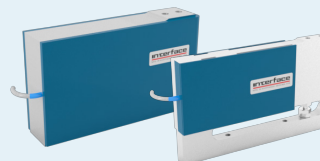
SM S-Type
10 lbf to 1000 lbf
50 N to 5000 N



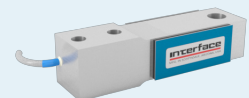
SMT Overload
Protected S-Type
1.1 lbf to 450 lbf
5 N to 2000 N
500% +1,000% FS Safe Overload



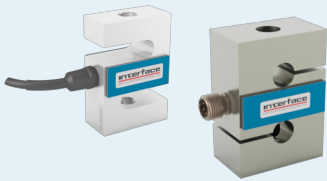
SMTM Micro S-Type
5 lbf to 50 lbf
20 N to 200 N
Micro-sized 3/4" x 3/4" x 1/4"
1,000% Safe Overload



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



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



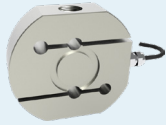
SuperSC Miniature S-Type
25 lbf to 1,000 lbf
100 N to 5 kN



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



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

MULTI-AXIS LOAD CELLS

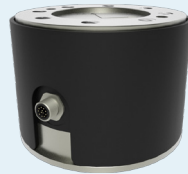
Multi-Axis Sensors are designed to measure a multiple of forces and moments simultaneously with a single load cell sensor. These sensors provide multiple bridges that precisely measure the applied force from one direction with little or no cross-talk from the force or moment. Our 3-axis, 6-axis, and 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.



1216/1516/2816 Axial Torsion
Force: 100 lbf to 15K lbf
Torque: 50 lbf-in to 7.5K lbf-in
Force: 1.11 to 66.7 kN
Torque: 5.6 Nm to 847 Nm
Fz, Mz



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



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



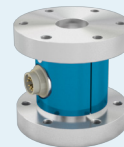
5600 2-Axis Axial Torsion
Force: 6K lbf to 180K lbf
Torque: 5K lbf-in to 300 lbf-in
Force: 27 kN to 800 kN
Torque: 560 Nm to 33K Nm
Fz, Mz



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



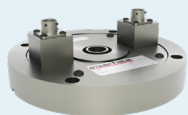
6ADF 6-Axis DIN Flange-Type
Force: 20 N to 1.2 kN
Torque: 1 Nm to 60 Nm



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/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



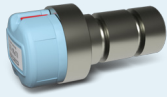
TXY 2-Axis Force
X: 1K lbf to 2K lbf
Y: 500 lbf
X: 4.4 kN to 8.8 kN
Y: 2.2 kN

LOAD PINS, TENSION LOAD LINKS, & SHACKLES

Interface's load pins are designed for the measurement of tensile and compressive forces across a wide variety of applications, including crane/lifting, industrial, marine, offshore, and civil engineering. Machined from high tensile stainless steel, our load pins are suitable for use in exposed situations including prolonged immersion in seawater. The tension load link series are designed for lifting and weighing applications in harsh environments and manufactured from high tensile aluminum and stainless steel. The load shackle pins are manufactured from high tensile carbon steel and the basic shackle uses the renowned Crosby™ shackles.



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



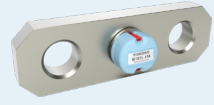
ILPW Standard Load Pin
1.1K lbf to 3,307K lbf
0.5 MT to 1,500 MT
Wireless, Keeper Plate Supplied
Environmentally Sealed to IP67
Stainless Steel Construction



LP/WTSLP Custom Load Pin
Up to 3,000K lbf
Up to 1,360 MT
Custom Designs Available with
Amplification, Submersible,
& Wireless



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



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



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



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



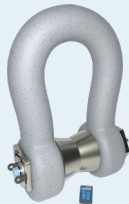
ISHK-B Bow Type Crosby™ Cabled Load Shackle
2.2K lbf to 2,205K lbf
1 MT to 1K MT
Submersible



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 & Wireless



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



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



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

HAZARDOUS ENVIRONMENTS

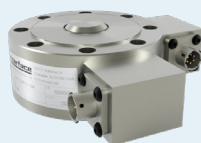
ATEX Products that have received ATEX certification will have the official “Ex” badge, indicating they are safe in explosive atmospheres. The product labels will define the explosive atmospheres where the equipment may be installed as well as any salient safety warnings.

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.

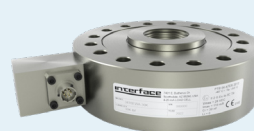
NORTH AMERICA ETL mark assures that all safety requirements in the respective country standards are met. The product labels will define the explosive atmospheres where the equipment may be installed as well as any salient safety warnings in both English and French.



3410 Intrinsically Safe LowProfile®
750 lbf to 10K lbf



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



3416 & 3432 Coil Tubing Intrinsically Safe Universal
20K lbf to 60K lbf



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



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



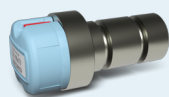
Hazardous Environment ICPA Stainless Steel & Stainless Steel Wireless Compression Only
4.4 lbf to 2,204K lbf
2 MT to 1K MT



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



Hazardous Environment ITCA Tension & 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



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



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



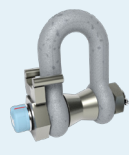
Hazardous Environment ISHK-D 'D' Type Crosby™ Cabled Load Shackle
2.2K lbf to 77.2K lbf
1 MT to 35 MT



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



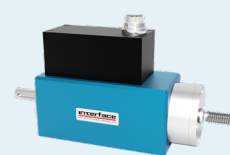
SSMH Selaed Hazardous Environment Intrinsically Safe S-Type
50 lbf to 5K lbf
200 N to 25 kN

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.



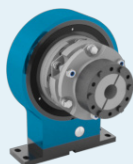
AT104 Compact Size Force & Torque
4.5/0.89 lbf/lbf-in & 11.2/4.4 lbf/lbf-in
20/0.1 N/Nm & 50/0.5 N/Nm



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



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



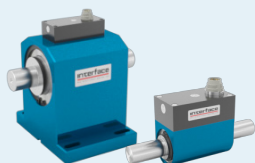
T1 Torque Coupling
400 lbf-in to 9K lbf-in
50 Nm to 1K Nm
Bearingless



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



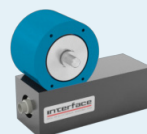
T3/T5 Ultra & Standard Precision Pedestal Mount
0.88 lbf-in to 177K lbf-in
0.1 Nm to 20K Nm



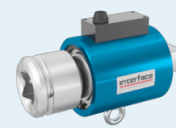
T6/T7 Dual Range
44.3/4.43 lbf-in to 4.43K lbf-in to 443K lbf-in
5/0.5 Nm to 500/50 Nm



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



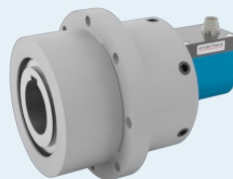
T12 Square Drive
0.88 lbf-in to 44K lbf-in
0.1 Nm to 5K Nm
USB Option Available



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



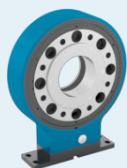
T22 Pulley Belt
177 lbf-in to 44K lbf-in
20 Nm to 5K Nm
High Roldal



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



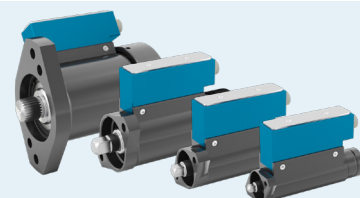
T25 High Speed
0.885 lbf-in to 44.3K lbf-in
0.1 Nm to 5K Nm
USB Option Available



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



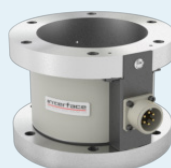
T28 Slip-Ring Drive
8.85 lbf-in to 44.3K lbf-in
55 Nm to 1K Nm



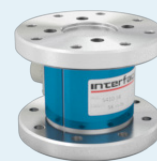
T31, T32, T33, & T34 Spindle Torque
8.85 lbf-in to 4.43K lbf-in
1 Nm to 500 Nm
Speeds Up to 2K RPM Integrated Speed/Angle Measurement

REACTION TORQUE TRANSDUCERS

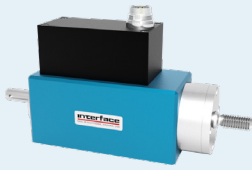
Interface's reaction torque transducer are specialized sensors used to measure the torque applied to a rotating shaft or component. Unlike rotary torque that typically measure torque directly on the rotating shaft, reaction torque measures torque indirectly through the reaction force generated by the 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
60 lbf-in to 100K lbf-in
6.8 Nm to 11.3K Nm



5400 Flange Style
1K lbf-in to 500K lbf-in
110 Nm to 55K 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 250/5N/Nm & 500/5 N/Nm



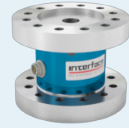
**MRT/MRT2 Miniature
Flange Style**

1.77 lbf-in to 177 lbf-in
0.2 Nm to 2 Nm
7x Overload Protected



**MRTP/MRT2P Miniature
Overload Protected
Flange Style**

1.77 lbf-in to 443 lbf-in
0.2 Nm to 50 Nm
3x Overload Protected



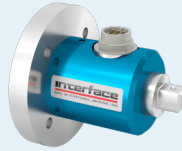
TS11 Flange Style
88.5 lbf-in to 177K lbf-in
10 Nm to 20K Nm



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



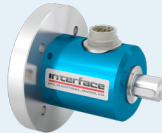
**TS15 Male Square
Drive to Flange**
1.77 lbf-in to 44.3K lbf-in
2 Nm to 5K Nm



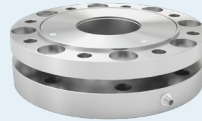
**TS16 Female Square
Drive to Flange**
1.77 lbf-in to 17.7K lbf-in
2 Nm to 2K Nm



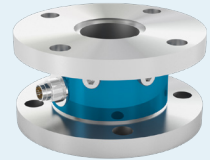
TS17 Hex Drive
1.77 lbf-in to 177 lbf-in
0.2 Nm to 20 Nm



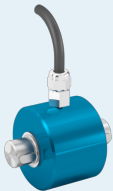
TS18 Shaft to Flange
17.7 lbf-in to 17.7K lbf-in
2 Nm to 2K Nm



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



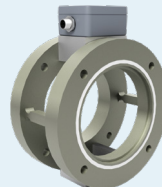
TS20 Hollow Flange
88.5 lbf-in to 1.77K lbf-in
10 Nm to 200 Nm



**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 & 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 & Controller
Up to 32 Scale Accumulators
Millivolt Calibration
5-Point Linearization



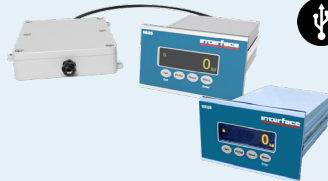
9325, 9325-NU Portable Sensor Display
Digital, Hand Held, Battery Powered,
TEDS Ready



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



9812 Panel Mount Display/ 9812-WTS Wireless Panel Mount Display
Single mV/V Transducer
Single Transmitter
Compatible with all WTS products



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 & Intelligent mV/V
Input Torque Transducer Indicator



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



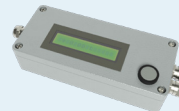
9870 High-Speed High Performance TEDS Ready Indicator
High Speed
Digital



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



9894 Analog Input Process Indicator
Analog Input Process Indicator



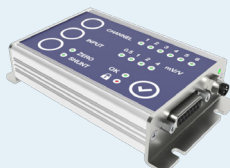
BSC1-HD Single Channel PC Interface Module
with Analog Output
Single Channel



BSC2 Dual Channel PC Interface Module
Dual Channel



BSC4A Bridge Amplifier & PC Interface Module
4 Channel



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



BTS Bluetooth® Telemetry System
Bluetooth Strain
Gage Transmitter



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



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



BX8-AS Data Acquisition
System & Amplifier
8 Channel



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



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



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



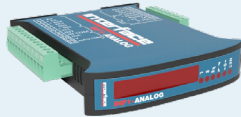
DIG-USB/DIG-USB-F USB & Fast
USB Output Module
Configuration, Calibration, Graphing,
Logging, & Display Software



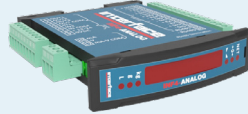
DMA2 DIN Rail
Mount Signal Conditioner
10-28VDC Power
Selectable Full Scale
Input Range 5-50mV



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



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



INF4 Two, Three, & Four Sensor
Weight Transmitter
& 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
& 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 & Enhances
Range of WTS Devices



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



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



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



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



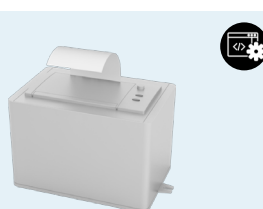
**WTS-BS-6 Wireless Telemetry
Dongle Base Station**
Includes WTS Toolkit
Software & Log 100 Software



**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



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



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

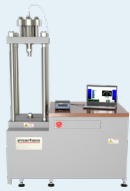
Calibration & Repair Services

- 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



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



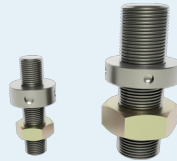
IFVF Interface Force
Verification Frame
Up to 5,000 lbf capacity
Portable, Lightweight,
& Accurate

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 & 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 &
Dual Channel Internal**
Mount Enclosures
Internally Mounted Plastic
NEMA 4 Enclosure for 1/8 Din Rail



**9800 Series Single
& Dual Channel**
Benchtop Enclosures
Designed For Benchtop
& Laboratory Use



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



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



IF500 Load
Cell Simulator
Set "ANY" mV/V Value within $\pm 5\text{mV/V}$
State-of-the-Art,
Microprocessor Based Design



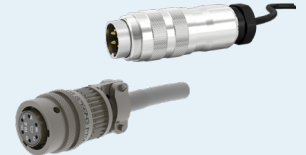
JN Jam Nuts
Used with REBs, clevises
& calibration adapters
Flat, parallel surfaces
Standard thread sizes



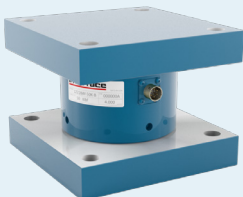
LB Load Cell
Load Buttons
Converts universal cell
to compression only
Spherical loading surface



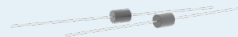
LowProfile® Load
Cell Base Kits
Heat Treated, High Strength Bases
Available in Standard Sizes



MC/CN Mating Connectors
Interconnects between
load cell & Instruments



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



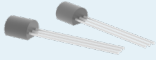
RCAL Resistors
Precision wire-wound
5 ppm/°C, 0.01%
Used for shunt calibration



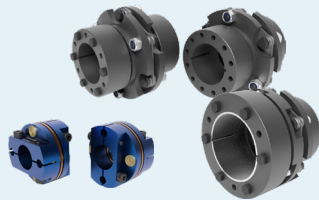
REB Rod End Bearings
For tension applications
Reduces alignment error
Metric sizes available



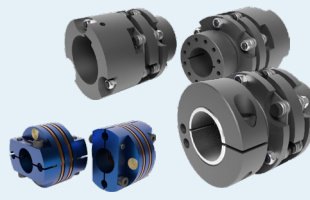
TA/THD Thread Adapters
Adapts male to female
Common Interface thread sizes
Adapts one thread size to another



TEDS Interface Force Verification Frame
Provides Sensor with Electronic Identification Plug & Play Ready



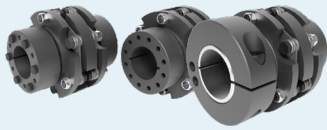
T2, T4, & T6 Floating Mount Single & Double Flex Couplings
Keyed Shrink Disk



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



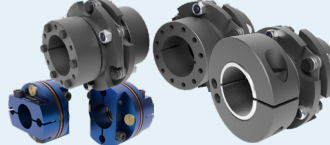
T8 Floating Mount Single & Double Flex Couplings
Keyed Clamping Ring



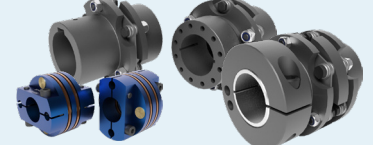
T8 Pedestal Mount Double Flex Couplings
Keyed Shrink Disk Clamping Ring



T11 Floating Mount Single Flex & Flex Disk Coupling
Keyed



T25 Floating Mount Single Flex Couplings
Clamping Ring Shrink Disk



T25 Pedestal Mount Single & 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 | • Crane Scales and Dynamometers |
| • Load Pins | • Rotary Torque Transducers | • Rod End Load Cells |
| • Load Buttons | • Reaction Torque Transducers | • 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.

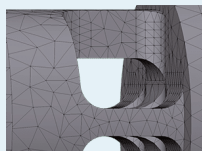
INTERFACE CUSTOM SOLUTIONS

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.

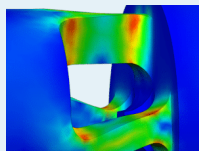
Our robust capabilities include customization of complete solutions, designed with FEA (finite element analysis), as well as proprietary Interface strain gages sensor products. All is done in our state-of-the-art machine shop headquartered in the US, supported by our world-class assembly and calibration 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.

Interface's experienced team are renowned specialists in force, torque, and weight measurement manufacturing and technology. Our depth of knowledge and wide range of capabilities create custom solutions of all types, whether special transducers made to your exact specifications or complete customized sensor, instrumentation, and software systems. We collaborate with you to ensure your specifications are designed to match your precise requirements.

Designing a complete force measurement solution is what we know and what we do exceptionally well. It is possible because we have a full team of experienced electrical, mechanical and software engineers dedicated to customized design, testing and validation. Interface can integrate custom, standard and even third-party products to meet the precise requirements of your specific application.

Contact experts and let's collaborate!

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.