



**Group
Four**
Transducers Inc

Pioneering | Measured | Solutions

OEM Load Cells & Custom Sensor Solutions

group-4.com

Measurement is the Crucible of Our Times

How much, How Fast, How Accurate? Weight, Pressure, Force, Torque, Displacement... Integrated to your Systems.

Solutions. We have a vast array of standard and configurable products.

Moreover, 42% of our in-field products are customized for OEMs

Group Four provides and customizes complete measurement chain solutions. This means that we not only provide the load cells or sensors, but also the cabling, connections, HMI system and software integration that is customizable to your in-house needs. Total Measurement Chain Solutions.

Resolution range from 100 grams to 1,000,000 pounds. Group Four recognizes you should not have to sacrifice accuracy for a specific design package which is why many of our designs are 1% accuracy or better. Our team of engineers are ready and available for your specific requirements. Do not compromise call us.

We provide measurement solutions for:



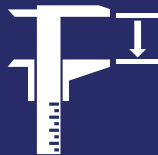
Force



Weight



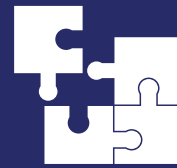
Pressure



Displacement



Torque



Customized

Markets Served

Aerospace



Medical



Agriculture



Lifting /Handling



Manufacturing process



Packaging



Automotive



Marine



Oil/gas



Chemical



Laboratory



Industrial weighing



OEM Load Cells & Application Specific Sensor Design Process

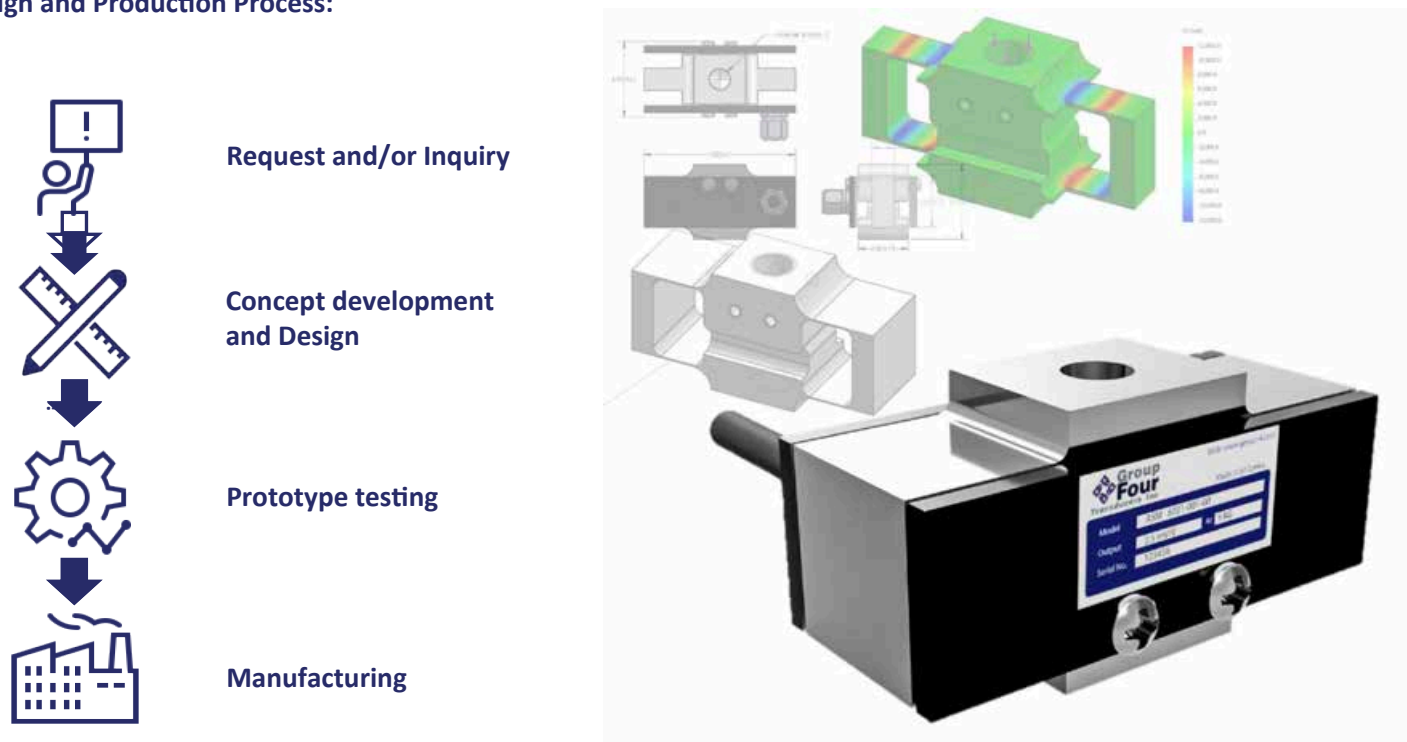
Group Four *negotiates* OEM load cell and sensor solutions.

What does negotiate OEM measurement mean? It means we work to build your custom solution to be no more or less than what it needs to be.

There are tradeoffs between accuracy, speed, levels of integration... and so on. Group Four has the most granular and finite capacity for system designation and production. Our quality control is iterative, production regulated, and delivery immaculately defined and communicated to address supply chain requirements.

We have the capacity, knowledge, experience and industry record to deliver quality product for Original Equipment Manufacturers to meet their product requirements.

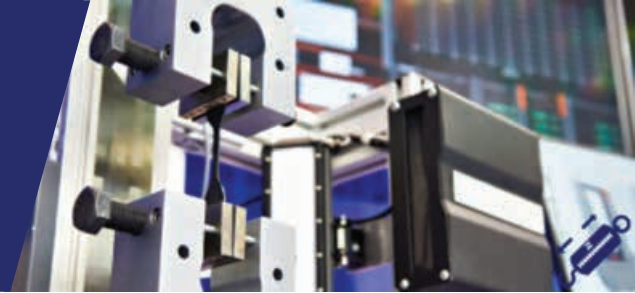
Design and Production Process:



Design and Manufacturing Capabilities

Mechanical Design	Electrical, Electronic & Communication Interface Design	Manufacturing
Innovative Concept Development	Analogue to Digital Conversion	Machining
3D Design & Modeling	Serial Communication RS232/RS485	Heat Treatment
FEA	EtherNet/IP	Surface Finishing
DFMEA	Wireless	Temperature Compensation
Product Prototyping	Digital I/O	Calibration
Industry Experience	Analogue Outputs	Quality Control
Design Expert Knowledge	Data Logging and Analyzing Software	SPC Analysis

Force Measurement Product Applications



8005/8006 OEM Beam Load Cell

8005/8006 OEM Load cell offers an impressive lightweight design with an easy side mounting feature making it ideal for OEM applications.



Application:
Force Test Machine

- Capacities from 2lb to 500lb
- Tension & Compression
- Single Point Construction
- Built-in Overload Protection
- Available in both Aluminum and Stainless steel



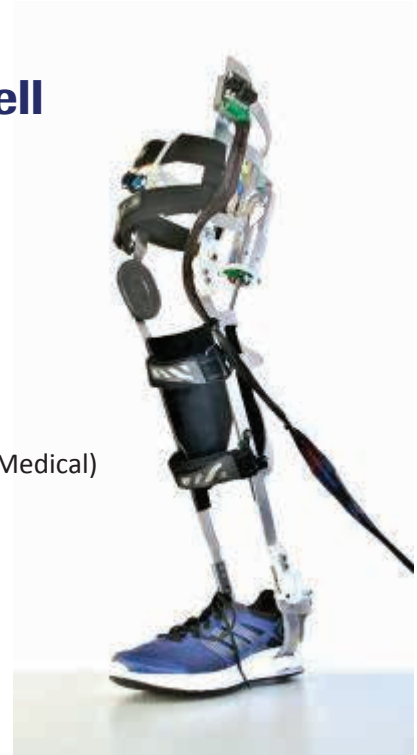
ASM 8031 OEM Tension Compression Load Cell

ASM(8031) Low Profile Tension & Compression Load Cell is a great selection where tight environments or space is a challenge.

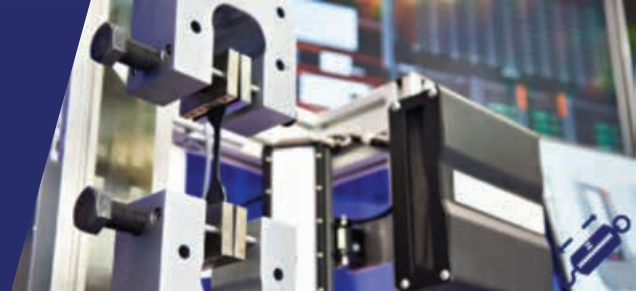


Application:
Robotic
Rehabilitation (Medical)

- Capacities from 5kg to 500kg
- Tension & Compression
- Space saving low profile design
- Aluminum Construction



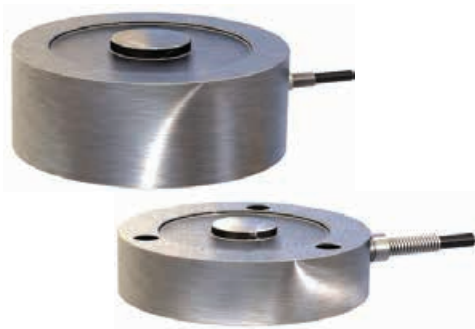
Force Measurement Product Applications



Force

MBL(5036)

The type MBL is a stainless steel compression button load cell for force and weight measurement. The low profile, small diameter design enables it to be easily embedded into machinery or test equipment.



Application:
Press force
monitoring system



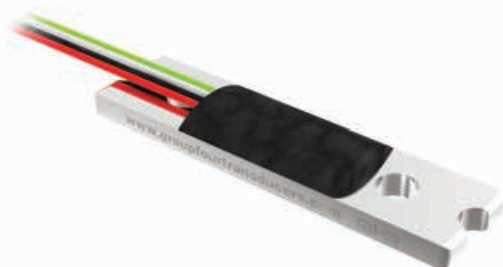
- Capacities from 100lb to 10000lb.
- Stainless steel construction.



Force

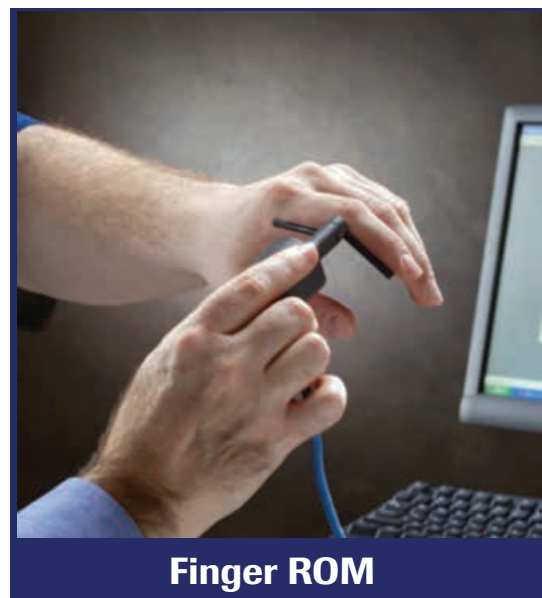
GB

GB miniature thin-beam load cell is designed for applications which require a compact design as well as the ability to handle repetitive loading without failing. The GB series meet this criteria as well as providing an economical solution for force measurement applications.



Application:
Medical
Instrument

- Range 50 -150 lb
- Compact design.
- Stainless Steel construction



Finger ROM

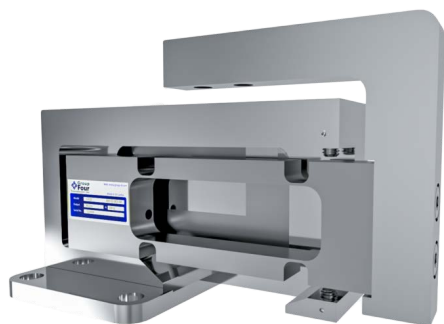
Force Measurement Product Applications



Force

GVSD 4001D

The GVSD Digital Single Point Load Cell is a special low capacity, low form factor useful in force measurement for medical and industrial applications. OEM options include bracket and spacers for ease of installation and accuracy.



- Capacity: 200, 500 & 1000 grams
- Low profile design
- Anodized aluminum construction
- Special bracket & spacers
- Environmental protection IP67



Force

T-Rex Customizable Test Stand

The T-Rex is a rugged, yet flexible designs, test stand which was created to provide economical testing solutions where more traditional high priced test solutions are not required. The T-Rex is available to test 4 tons in tension and 10 tons in compression. Available in either a manual or motorized pump, multiple load cell configurations as well as digital readout and data collection options. Applications include: Mechanical connection test, adhesive bond strength verification, extraction or insertion force testing, crushing strength review.

Application:
Motorized
Test Stand



Weight Measurement Product Applications



DTC(5043D)

The Digital or Analog column type load cell designed for tank weighing and force testing applications. The stainless steel load cell is hermetically sealed and is ideal for use in heavy wash down applications.



Application:
Aircraft weighing

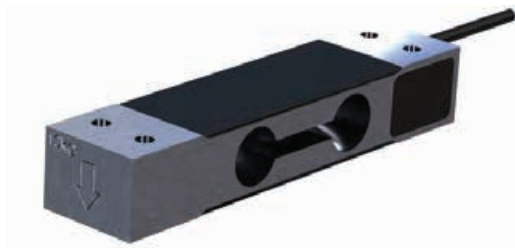


- Capacities from 1klb to 50klb
- Digital Output
- Environmental protection IP69.
- Stainless steel construction.



SP2(4002)

This aluminum single point load is ideal for use in small bench scales, medical scales, light capacity filling machines and packaging machines.



Application:
Weigh Filling machine



- Capacities from 3 kg to 60 kg.
- Aluminum construction.
- Low profile design.

Torque Measurement Product Applications



M10TS

M10TS Torque Sensor is available in Aluminum construction in a wide capacity range. Torque Sensor can be modified or customized to meet your requirements.



Application:
Torque Auditing

- Range 20 -1600 in-oz
- Easily integrates into OEM applications
- Aluminum construction



Non-Contact Torque Measurement

TORQUE MEASUREMENT
ENSURES OPTIMAL
MATERIAL FLOW

MONITORING
BELT LIFT

POSITION MEASUREMENT
STEERING

TORQUE AND
ANGLE MEASUREMENT

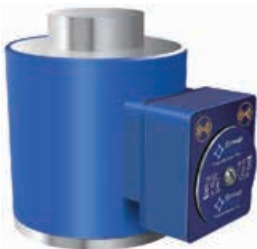
Wireless Load Cells Product Applications



Group Four wireless load cell products are perfect for applications where it is not feasible or inconvenient to have a hardwired system. Error free data transmission, long battery life, and industry leading wireless range, are design improvements we have made to keep Group Four wireless innovations ahead of the competition. These are perfect for overhead lifting applications, mining, and virtually any tension or compression measurement application where wires are a nuisance.



GWLS Wireless IP67 Loadshackle



**GWNl Stainless Steel IP67
Wireless Compression Load Cell**



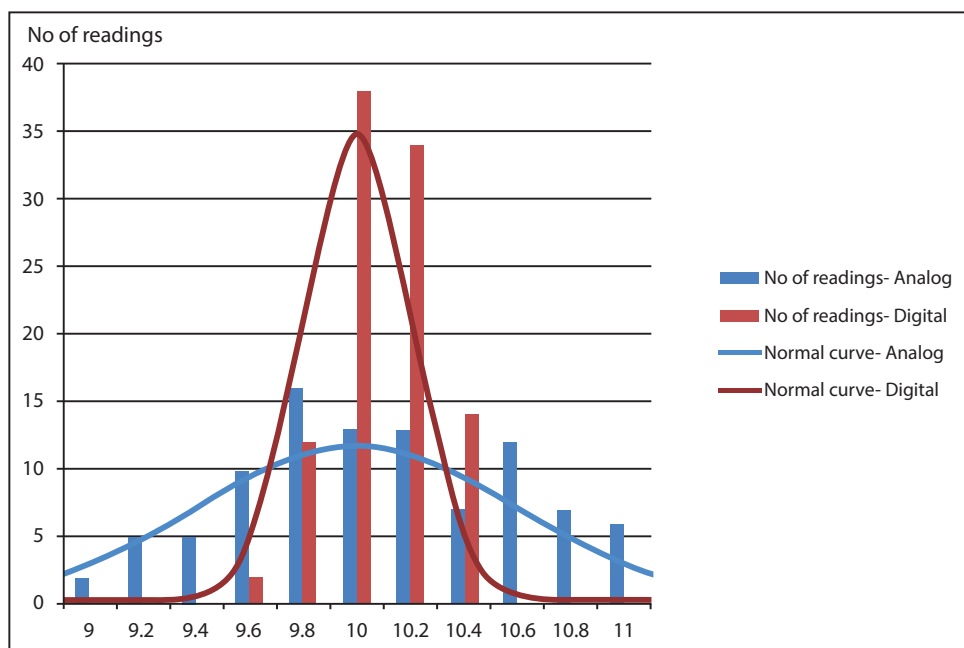
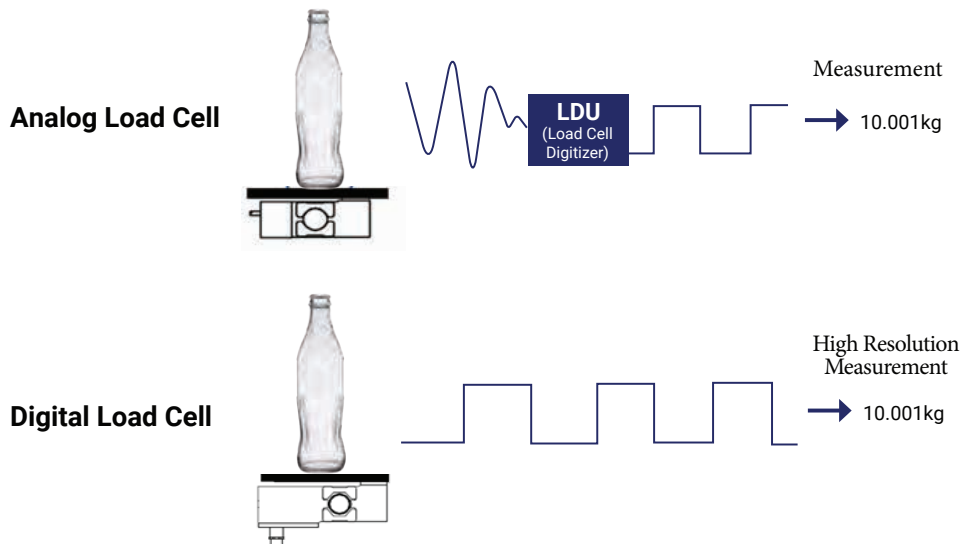
WDLU Wireless Digitizer

Digital Load Cells Product Applications



Group Four's digital load cell technology is truly unique within the industry. Our manufacturing process allows our digital load cells to achieve higher accuracy, superior resolution and greater stability. With this innovative technology it eliminates the need for initial calibration. High resolution at high speed means that the our digital load cells are ideal for high-speed filling and check weighing applications along with force measurement, tank bin and hopper weighing.

Higher Accuracy with a Lower Standard Deviation, Digital vs Analog.





Group Four provides end to end measurement chain solutions. What exactly is a measurement chain? For Group Four, it is everything in the measurement system, connected to your network!

The Group Four measurement chain description is so broad because it is evolving! Connections and information sharing is becoming accessible at more points than ever before. In its most basic form, the measurement chain includes a sensor, a method of transmission of signal, and a 'transmitter' to transform the electrical signal into a readable form. These measurements taken together, and integrated with end user PLC, HMI, or total network provide the vital measurements necessary for process control.

Signal



Weight Measurement



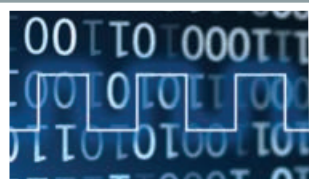
Analog



Force Measurement



Pressure Measurement



Digital



Torque Measurement

Connection



JB4 Junction Box



Wireless



Daisy Chained RS485/422 Cabling System



PLC /HMI



Gateway EGM187.1

Indicators



GR400 Indicator



GDAD141



GDAD143



RS 232



G4 Digital HMI

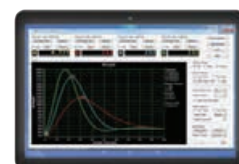
Data



Computer + DOP4 software



PLC /HMI



Quality Control & Certifications

Group Four has ISO 9001: 20015 certification for design development, manufacturing and testing of load cells, force transducers, torque transducers and weighing systems. Group Four has monthly, weekly and daily process audits across operational and engineering groups to ensure continuous improvement and rapid implementation of corrective action cumulating in a complete Corrective Action/CAPA process which drives through our ERP system.

Regulatory Standards:



Locations

Group Four Transducers
Global Headquarters
sales-us@group-4.com

European Sales
sales-eu@group-4.com

Asia Sales
sales-cn@group-4.com

Mexico
sales-mx@group-4.com

Business Development
Los Angeles, CA
sales-us@group-4.com

Design and Manufacturing
Dankotuwa, Sri Lanka
sales-sl@group-4.com

India
sales-in@group-4.com

Australia
sales-au@group-4.com

**Contact a Group Four Application Engineer to
Discuss Your Measurement System Today!**

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