

LOAD CELLS

Smart Loadcell Systems, Proudly
Manufactured in SA



# More Than Loadcells — Instrumentation. Software. Insight

#### INTRODUCTION

#### WELCOME TO THE LOADTECH LOAD CELLS PRODUCT CATALOGUE

AT LOADTECH LOAD CELLS, WE TAKE PRIDE IN BEING SOUTH AFRICA'S LEADING MANUFACTURER OF HIGH-QUALITY LOAD CELLS AND FORCE MEASUREMENT SOLUTIONS. WITH OVER 40 YEARS OF EXPERIENCE, WE UNDERSTAND THE IMPORTANCE OF PRECISION, RELIABILITY, AND DURABILITY IN EVERY LOAD CELL WE PRODUCE. THIS CATALOGUE IS DESIGNED TO GUIDE YOU THROUGH OUR EXTENSIVE PRODUCT RANGE, HELPING YOU FIND THE RIGHT SOLUTION FOR YOUR SPECIFIC APPLICATION.

#### **OUR COMMITMENT TO EXCELLENCE**

OUR PRODUCTS ARE ENGINEERED AND MANUFACTURED TO THE HIGHEST STANDARDS, ENSURING EXCEPTIONAL PERFORMANCE EVEN IN THE MOST DEMANDING ENVIRONMENTS. WHETHER YOU REQUIRE A LOAD PIN, SHEAR BEAM, BENDING BEAM, OR COMPRESSION LOAD CELL, YOU CAN TRUST LOADTECH LOAD CELLS TO DELIVER ACCURACY AND DURABILITY YOU CAN RELY ON.

#### **TAILORED SOLUTIONS**

WE RECOGNIZE THAT EVERY MEASUREMENT CHALLENGE IS UNIQUE. THAT'S WHY WE OFFER A RANGE OF STANDARD PRODUCTS AS WELL AS CUSTOM-DESIGNED SOLUTIONS TO MEET THE SPECIFIC NEEDS OF OUR CLIENTS ACROSS INDUSTRIES INCLUDING MINING, CONSTRUCTION, AGRICULTURE, AND INDUSTRIAL MANUFACTURING.

WHAT YOU'LL FIND INSIDE

#### THIS CATALOGUE FEATURES:

A COMPREHENSIVE OVERVIEW OF OUR LOAD CELL PRODUCTS.

DETAILED SPECIFICATIONS AND DIMENSIONS FOR EACH MODEL.

GUIDANCE ON INSTALLATION AND CALIBRATION.

INFORMATION ON CUSTOM SOLUTIONS AND TECHNICAL SUPPORT.

#### **CONTACT US**

OUR TEAM OF EXPERTS IS READY TO ASSIST YOU WITH ANY INQUIRIES, FROM PRODUCT SELECTION TO TECHNICAL ADVICE AND AFTER-SALES SUPPORT. PLEASE DO NOT HESITATE TO REACH OUT—WE'RE HERE TO ENSURE YOUR SUCCESS.

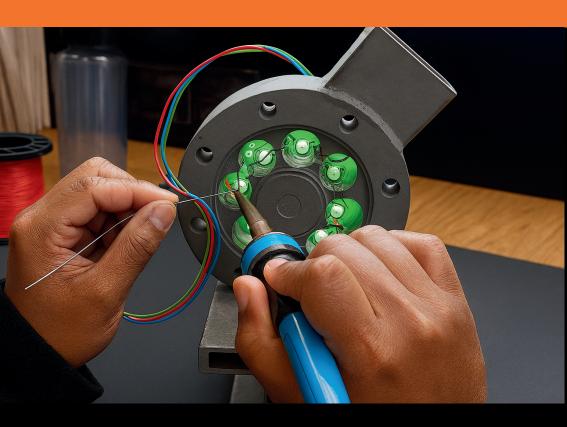
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LET'S BUILD SOLUTIONS TOGETHER WITH CONFIDENCE AND PRECISION

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A compression load cell is a force sensor specifically designed to measure pushing or compressive forces. It's widely used in industrial and commercial applications where accurate measurement of compressive force is essential.

### LT200 Universal Low Profile Load Cell



#### **Key Features**

Capacities 1 000 to 200 000kg

Epoxy coated tool steel

Hermetically sealed to IP 68

Excellent side load resistance

Tension or Compression

Built-in overload stop in compression

Intrinsically safe

# LT220 Compression Disk Load Cell



#### **Key Features**

Capacities 5000kg–50 000kg Stainless steel construction OIML R60 and NTEP approved IP68 protection

# **RLC Compression Load Cell**



#### **Key Features**

Capacity range: 250 kg to 60 ton
Low profile, stainless steel construction
Hermetically sealed, IP66 and IP68;for 250kg,
OIML R-60 and NTEP 6000d

### C16A Load Cell



#### **Key Features**

Load cell made of stainless steel
IP68/IP69K degree of protection
Capacities are available: 20 t, 30 t, Accuracy
class up to C5 OIML class III
Legal for trade weighing system of up to 5,000
divisions

### LT326 Bi-Directional Load Cell



#### **Key Features**

Load cell made of stainless steel
Small deformation, low height, easy installation

Protection: IP67

Capacities are available: 10kN-2000kN

### Miniature Compression Load Cells



#### **Key Features:**

Low height, small deformation, compact size Customizable stainless steel material for high temperatures

Protection levels: IP67.

Applications: automotive press assembly, automated assembly, 3C product testing, new energy product assembly, medical testing, robotics, and mold assembly High precision, long-term stability, reliability, fatigue and impact resistance, suitable for high-frequency use.



A bending beam load cell is a type of strain gauge-based sensor that measures force by detecting the flex or bending of a beam. It is widely used in precise, low to medium capacity weighing applications, especially where compact and sensitive instrumentation is required.

### LT305 Solid Beam Load Cell





#### **Key Features**

Capacity Range: 5 kg to 500 kg Material: Fully welded stainless steel

construction
Protection: IP68 – fully waterproof

and dustproof

### LT315 Bellow Beam Load Cell





#### **Key Features**

Capacity Range: 5 kg to 500 kg Material: Fully welded stainless steel construction

Protection: IP68 – fully waterproof and

dustproof

### 355 Bellow Beam Load Cells



#### **Key Features**

Capacity Range: 5 kg to 500 kg Material: Fully welded stainless steel construction

Protection: IP68 – fully waterproof and dustproof

### 3410 Shear Beam Load Cells



#### **Key Features**

Capacities 250–2000 kg and 1000–4000 lbs
Alloy Steel Construction
OIML R60 and NTEP approved
IP67 protection

### 3510 Shear Beam Load Cell



#### **Key Features:**

Capacities 300–5000 kg, 1000–5000 lbs
Stainless steel construction
OIML R60 and NTEP approved
Hermetically sealed to IP68 and IP69K
Specially designed for harsh
environment

### LT300 Shear Beam Load Cell



#### **Key Features**

Capacities 500 to 10 000 kg
Electroless nickel plated steel
IP66 protections
Excellent side load resistance
Industry standard fitting

# Single Point Load Cells



Single point load cells are a type of strain gauge-based sensor designed to measure force or weight. They are especially known for their high accuracy and are commonly used in applications requiring precise weight measurements from a single load application point.

# Single Point Load Cells

# 1022 Single Point Load Cells



#### **Key Features**

Capacity range: 10–150 kg
Aluminium construction
Single-point 400 x 400 mm platform
Sealed to IP66

### 1263 Single Point Load Cells



#### **Key Features**

Capacities 50–635 kg
Aluminum construction
Single-point 600 x 600 mm platform
OIML R60 approved
IP66 protection
Available with metric threads

# Single Point Load Cells

### 1250 Single Point Load Cells



#### **Key Features:**

Capacities 50–1500 kg
Aluminum construction
Aluminum construction
Single-point 800 x 800 mm platform
OIML R60 and NTEP approved
IP65 protection

### LT720 Single Point Load Cells





#### **Key Features**

Capacity range: 50kg,150 kg,250kg Aluminum construction Single-point 400 x 400 mm platform Sealed to IP66

### **Tension Load Cells**



Tension load cells are sensors designed to measure tensile (pulling) force, converting the mechanical force into an electrical signal using strain gauges. These load cells are crucial in systems where accurate force measurement under tension is needed—such as in lifting, suspension, and pulling applications.

### **Tension Load Cells**

# LT420 S-Type Load Cells



#### **Key Features**

Capacities 50–500 kg
Alloy steel construction
IP67 protection
For use in tension or compression
6 wire (sense) circuit

### 620 S-Type Load Cells



### **Key Features**

Capacity range: 500–5000 kg
Stainless steel construction
Sealed by welding to IP68
S-type design for use in tension and compression

# **Tension Load Cells**

# LT620 Type Load Cells



#### **Key Features**

Capacities 1000 kg to 5000 kg IP66 protection

# LT620 Type Load Cells



#### **Key Features**

Capacities 10 000 kg to 100 00 kg IP66 protection



Custom-made load cells are precision-engineered force sensors designed to meet specific application requirements where standard off-the-shelf solutions are not viable. These sensors convert mechanical force into an electrical signal with high accuracy, offering tailored performance for specialized mechanical environments, geometries, and load conditions.

# Shear Pin Load Cells



#### **Applications**

This model is ideal for industrial use in:
Crane applications
Marine applications
Pin replacement
Mechanical Overload Protection

# Custom Columm Load Cells



#### **Applications**

This model is ideal for industrial use in:
Industrial Compression Testing
Oil & Gas / Offshore Platforms
Heavy Lifting and Crane
Process and Manufacturing Equipment

# Shackle Type Load Cells



#### **Applications**

This model is ideal for industrial use in:
Crane Load Monitoring
Lifting and Rigging Operations
Proof Load Testing
Tension Monitoring
Load Surveys and Temporary Installations

### **Custom Load Cells**



### **Applications**

Railway cart applications
Special applications

### Custom Double Shear Beam Load Cells



#### **Applications**

Feed bins Hopper's Feed Trailers Special agriculture applications

### LT100 / LT150



#### **Key Features**

Capacities 1 000 to 200 000kg
Epoxy coated tool steel
Hermetically sealed to IP 68
Excellent side load resistance
Tension or Compression
Built-in overload stop in compression
Intrinsically safe

### Wireless Load Cells



Wireless load cells are advanced force measurement devices that eliminate the need for traditional wired connections, offering enhanced flexibility, ease of installation, and reduced maintenance. They are commonly used in industrial, applications, and structural monitoring applications.

### Wireless Load Cell

### LTW620 - Wireless Load Cell



#### **Applications**

This model is ideal for industrial use in:

Crane applications

Marine applications

Test rigs and portable load testing

### LTW621 - Wireless Shackles Load Cell



### **Applications**

This model is ideal for industrial use in:
 Lifting and Rigging Operations
 Proof Load Testing
 Tension Monitoring
Load Surveys and Temporary Installations

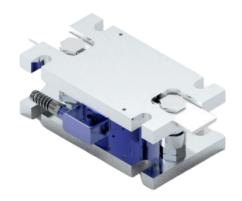
# Weighing Modules for Load Cells



Weighing modules are mechanical structures that integrate with load cells to support and measure the weight of tanks, hoppers, silos, or other industrial vessels. They provide the physical mounting and safety features required for accurate and safe weight measurement in various applications.

# Weighing Modules for Load Cells

### LT2006 Ezee Mount Load Cells



#### **Applications**

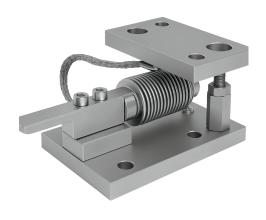
This model is ideal for industrial use in:

Hoppers

Tanks

Silos

# Bellow Beam Weighing Module



#### **Applications**

This model is ideal for industrial use in:
small tanks
small hoppers
small tanks

# Weighing Modules for Load Cells

### Bending Beam Weighing Module



#### **Applications**

This model is ideal for industrial use in:
small tanks
small hoppers
small tanks

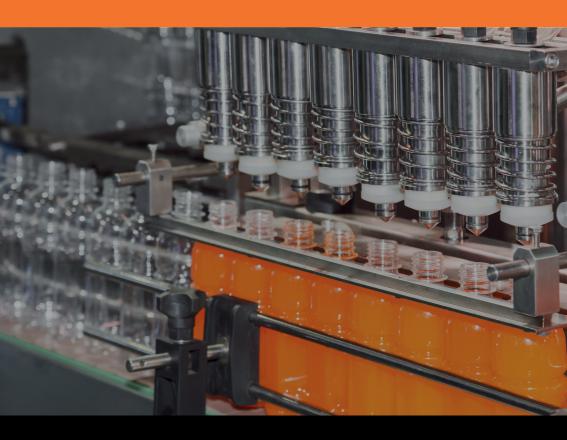
### 220 / RLC Silo Mount



#### **FEATURES**

- Capacities: 0.25–10T
- Hardened components at all load bearing surfaces
  - Rocker pin load introduction
  - Stainless steel construction
- Built-in horizontal movement control and lift-off protection
  - Load cell (re)placement after installation of the mount

# **Damped Load Cells**



Damping load cells are advanced force measurement sensors specifically engineered for applications that require accurate and stable readings in dynamic environments. Their key feature lies in their built-in fluid damping mechanism, which effectively minimizes oscillations and mechanical vibrations, delivering high-precision force readings even under fluctuating load conditions.

# **Damped Load Cells**

# Tedea 240 Damped Load Cell



#### **Applications**

Multi-head filling machines
Check weighing
Grading machines
Liquid filling
Dynamic weighing

### Tedea 9010 Damped Load Cell



### **Applications**

Multi-head filling machines
Check weighing
Grading machines
Liquid filling
Dynamic weighing



Mounting accessories for load cells are crucial for ensuring accurate and stable measurement in force and weight sensing applications. The right accessories help minimize the effects of external forces, misalignment, and movement that could compromise measurement accuracy.

### LT2000 Button



#### **Applications**

Large platform scales
Hoppers
Silos
Tanks
Made For LT200 Load Cell

# LT2005 Mounting Kit



### **Applications**

Large platform scales
Hoppers
Silos
Tanks
Made For LT200 Load Cell

# LT2001 Mounting Kit



#### **Applications**

Large platform scales
Hoppers
Made For LT200 Load Cell

# LT2002 Mounting Kit



#### **Applications**

Large platform scales
Hoppers
Silos
Tanks
Made For LT200 Load Cell

### LT2007 Shock Mount Kit



#### **Applications**

Large platform scales
Hoppers
Made for LT200 Load Cell

# LT3000 Elastomer Bearing



#### **Applications**

Large platform scales
Hoppers
Tanks
Made for LT300 Load cell

# LT2004 Eye Bolts



#### **Applications**

Tension Applications
Made for LT200 Load Cell

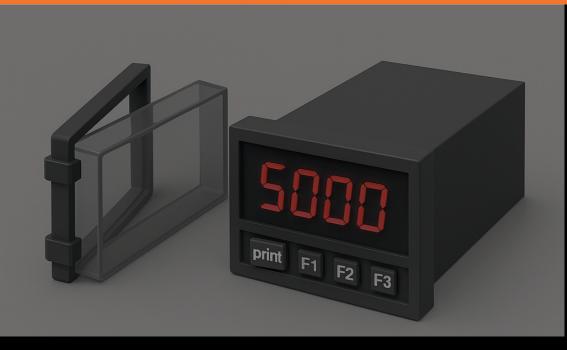
### LT4000 Rod Ends



#### **Applications**

Tension Applications
Made for LT400 Load Cell

### **Panel Mount Indicators**



### **Precision Meets Performance**

Loadtech's range of panel mount instruments is engineered for seamless integration with load cells, offering reliable and accurate measurement for industrial weighing and force monitoring applications. Designed and manufactured in South Africa, these instruments combine robust build quality with user-friendly interfaces, ensuring consistent performance in demanding environments.

### **Panel Mount Indicators**

### LT1240 Load Cell Panel Mount



High bright 6-digit 14 segment LED displays for easy setup and calibration

4 or 6 wire load cell / strain gauge input Can power up to  $6x350\Omega$  load cells at +5VDC excitation voltage

High precision 24 bit ratiometric ADC front end circuitry -199999 to +999999 display counts

Easy calibration either from the load cell calibration certificate or by using known weights / load cell simulator RS232 communications standard (MODBUS™ RTU/ASCII and an Infiniteq ASCII out protocol)

Type 4X, NEMA 4X front panel. 96X48 ABS/Polycarbonate enclosure

### LT1200 Process Meter



High bright 6-digit 14 segment LED displays for easy setup and calibration

Inputs for mA, Volts, Potentiometer, Frequency and Counting

Built in functions such as an Event Timer, Real Time
Clock (RTC option required), manual setpoint
station (Analog output option required)
Multiple output excitation voltage for transmitter and
sensor excitation.

High precision 24 bit ADC front end circuitry -199999 to +999999 display counts

Easy calibration of analog process variables from display ranges or by direct sensor injection

### **Panel Mount Indicators**

### LT1230 Load Cell Panel Mount



High bright 6-digit 14 segment LED displays
-199999 to +999999 display counts
input:RS232 and RS485 communications standard
(MODBUS™ RTU/ASCII and an Infiniteq ASCII out protocol)
Type 4X, NEMA 4X front panel. 96X48 ABS/Polycarbonate
enclosure

Universal mains switch mode power supply (85-264VAC) standard with built in EMI and fuse protection

### LT1210 Digital Logic Meter



High bright 6-digit 14 segment LED displays for easy setup and calibration

Designed for BCD, Gray code and Binary coded inputs
Input is front panel configurable for decimal point,
scaling and positive or negative logic

5V to 24V logic levels

Positive (True) or negative (Inverse) logic
Parallel BCD range: -199999 to 399999 display counts
Multiplexed BCD range: -199999 to 999999 display
counts

Gray code and Binary code range: -199999 to 999999 display counts

### **Panel Mount Indicators**

## LT1201 Temperature Meter



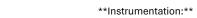
High bright 6-digit 14 segment LED displays for easy setup and calibration

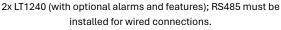
Inputs for PT or RTD, Thermocouples
Built in functions such as an Event Timer, Real Time Clock
(RTC option required), manual setpoint
station (Analog output option required)
Multiple output excitation voltage for transmitter and
sensor excitation.

High precision 24 bit ADC front end circuitry
-199999 to +999999 display counts
Easy calibration of analog process variables from display
ranges or by direct sensor injection

## LT1230S / Simulation Meter

The LT1230S summation can integrate various Loadtech instrumentation with RS485 or RS232 connections. Here's how to set it up:





\*\*LT1230 Setup:\*\*

1x LT1230 (with optional alarms); includes standard RS232 and RS485 ports.

\*\*Optional Radio Modems:\*\*

2x RS232 radio modems for LT1240s.

1x RS232 or RS485 radio for the LT1230.

\*\*Optional Large Display:\*\*

One or more displays connected via RS232, RS485, or radio modem to the LT1230.

\*Note:\*\* The LT1230's RS232 and RS485 ports function identically and must match the purchased instrumentation.



Precision in Every Signal – Built to Perform, Built to Last
The Wall Mount Load Cell Transmitter is engineered for
seamless integration into industrial weighing systems where
reliability and accuracy are critical. Housed in a rugged, IP65rated enclosure, this transmitter is purpose-built for wall
mounting in harsh environments, including factories, silos,
batching plants, and outdoor installations.

#### LT1300 Wall Mount Indicator



The LT1300 wall mount load cell indicator is a precision digital indicator for load cell and strain gauge applications.

The high bright 6-digit 7-segment 20mm LED displays and the sunlight readable graphic LCD display make for easy setup and readability. A simple menu system allows for easy configuration of display and load cell settings. The load cell calibration can be done directly from the load cell calibration certificate or from using known weights.

Either a universal mains switch mode power supply (85-264VAC) or a low voltage (10-30VDC) isolated power supply can be installed.

The LT1300 contains precision front end circuitry for high accuracy and stability. The ratiometric ADC circuitry automatically compensates for temperature drift and excitation voltage variances due to cable loss. The load cell excitation voltage is +5VDC and can interface with both 4 wire and 6 wire load cells.

### LT1301 Dual Load Cell Input Transmitter





The LT1301 wall mount dual load cell indicator is a precision digital indicator for dual load cell and strain gauge measurement applications. It also has the ability to sum both load cell inputs.

The high bright 6-digit 7-segment 20mm LED displays and the sunlight readable graphic LCD display make for easy setup and readability. A simple menu system allows for easy configuration of display and load cell settings. The load cell calibration can be done directly from the load cell calibration certificate or from using known weights.

## LT1320 Belt Weighing Indicator



The LT1320 Belt Weigher indicator is a precision digital indicator for belt weighing applications. The LT1320 takes the weight and speed information from a belt conveyor system to accurately calculate rate and total material transferred.

The high bright 6-digit 7-segment 20mm LED displays and the sunlight readable graphic LCD display make for easy setup and readability. A simple menu system allows for easy configuration of display and belt weighing settings.

## LT1310 Bagging Indicator



The LT1310 Bagging Controller is an advanced digital controller for filling applications. The LT1310 can function as a gross weigher or as a net weigher.

The high bright 6-digit 7-segment 20mm LED displays and the sunlight readable graphic LCD display make for easy setup and readability. A simple menu system allows for easy configuration of display and bag controller settings. The load cell calibration can be done directly from the load cell calibration certificate or by using known weights.

A universal mains switch mode power supply (85-264VAC) is provided as standard but an optional low voltage (10-30VDC) power supply can be installed.

## LT1330 Throughput Weigher



The LT1330 Throughput Weigher is an advanced digital controller for throughput weighing applications.

The high bright 6-digit 7-segment 20mm LED displays and the sunlight readable graphic LCD display make for easy setup

and readability. A simple menu system allows for easy configuration of display and throughput weigher settings. The load cell calibration can be done directly from the load cell calibration certificate or by using known weights. A universal mains switch mode power supply (85-264VAC) is provided as standard but an optional low voltage (10-30VDC) can be installed.

## Ethernet TCP/IP Option on Wall mount





Loadtech LT Ethernet Series – Wall-Mounted Weighing & Process Controller
Rugged. Connected. Built for Industry.
Introducing the Loadtech LT Ethernet Series, our latest wall-mounted instrumentation solution engineered for high-performance measurement, control, and communication in harsh industrial environments.

Designed with the trusted reliability Loadtech is known for, this next-generation controller now includes native Ethernet TCP/IP with Modbus TCP support, enabling seamless integration into modern plant networks and IIoT-ready platforms.

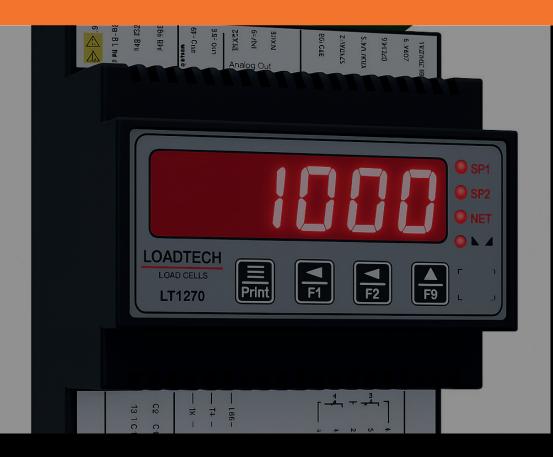
## LT1602 Enclosure to House Wall Mounts



Instrumentation should be housed in enclosures for several critical reasons related to protection, safety, and performance.

Instrumentation enclosures are not just optional accessories—they are essential for ensuring performance, durability, safety, and compliance in industrial and commercial settings. They serve as the first line of defense between precision equipment and harsh operational realities.

## **Din Rail Mount Instruments**



Loadtech's DIN rail-mounted signal conditioning modules are engineered for seamless integration in industrial weighing systems, especially where space efficiency and robust signal transmission are key. Designed to operate reliably in harsh environments, they are ideal for both wired and wireless load cell applications.

## **Din Rail Instruments**

## LT1270 Din Rail Mount Load Cell Meter



The LT1270 DIN rail mount load cell indicator is a high-precision digital device designed for load cell and strain gauge applications. Key features include:

- High-bright 6-digit LED display for easy readability and setup.
- User-friendly menu system with built-in help hints for configuration.
  - Load cell calibration using certificates or known weights.
- Standard universal mains power supply (85-264VAC) with optional low or high voltage supplies.
- Precision circuitry for high accuracy, compensating for temperature drift and cable losses.
- Supports both 4-wire and 6-wire load cells, powering up to  $6x350\Omega$ .
- RS232 and RS485 communication with MODBUS<sup>™</sup> protocols and simple ASCII output.
- Two programmable mechanical relays and analog output options (0/4-20mA or 0-10V).

Advanced features like auto-zero tracking, user input linearization, max/min recording, and security menu lockout.

#### LT1285-RS485 Radio Link



The LT1285 radio modem acts as a wireless serial cable replacement and can wirelessly connect various devices together for a large range of applications. The LT1285 radio modems operate in the license free 2.4GHz ISM (industrial, scientific, medical) band and is capable of achieving long range line-of-sight communications up to 1km. With its stylish aluminum extruded enclosure and industrial temperature grade electronics makes the unit perfect for industrial automation / SCADA systems and remote data acquisition. The LT1285 includes DSSS (Direct Sequence Spread Spectrum) radio technology to ensure reliable communication in noisy environments. The LT1285 also includes 128 bit AES encryption technology for secure wireless data transfer. The LT1285 can operate in a peer-to-peer (no master/slave dependencies), point-to-point, point-to-multipoint and repeater network topology. Available in RS485.

### **Din Rail Instruments**

## LT1280 -RS232 Radio Link



wirelessly connect various devices
together for a large range of applications. The LT1280 radio modems operate in the
license free 2.4GHz ISM
(industrial, scientific, medical) band and is capable of achieving long range line-ofsight communications up to 1km. With
its stylish aluminum extruded enclosure and industrial temperature grade
electronics makes the unit perfect for industrial
automation / SCADA systems and remote data acquisition. The LT1280 includes
DSSS (Direct Sequence Spread
Spectrum) radio technology to ensure reliable communication in noisy
environments. The LT1280 also includes 128
bit AES encryption technology for secure wireless data transfer.

The LT1280 radio modem acts as a wireless serial cable replacement and can

The LT1280 can operate in a peer-to-peer (no master/slave dependencies), point-to-point, point-to-multipoint and repeater network topology. Available in RS232.

#### LT1820 Loop Isolater



The LT1820 adopts unique electromagnetism isolation to achieve high accuracy and linearity. It can drive up to 300 ohms and boasts an isolation voltage of >3kV. The main use for a 4-20mA loop isolator is for the elimination of ground loop measurement problems.

The LT1820 is housed in a space saving DIN rail mount enclosure and is very easy to install

#### **Features**

4-20mA input/output passive isolator
No additional power supply required
Eliminate ground loop measurement problems
Two-port isolation (Between input and output)
Low voltage drop
High frequency response
Accuracy and linearity better then 0.1%FS



Enhance your weighing and force monitoring systems with Loadtech's range of reliable and rugged accessories. These add-on items are designed to complement your load cell instrumentation and ensure optimal performance, protection, and visibility in demanding industrial environments.

## LT543-3way Junction Box



The load cell junction / summation box allows for easy connection / summation of up to 2 load cells to be connected in

parallel to the load cell instrumentation. Features of the junction / summation box include an IP65 protection rating,

removable connectors for easy connection and fault finding, a bi-color LED for load cell voltage excitation indication and a

clear lid for easy fault finding.

Features

Easy connection / summation of up to 2 load cells in parallel

IP65 Protection rating

Bi-color LED indicating the presence of ac/dc load cell excitation voltage or incorrect dc polarity

Supports 4 or 6 wire load cells

Clear lid for easy fault finding

Shielded 6-wire connection to the load cell instrumentation

Removable connectors for easy fault finding

Color coded cable glands

## LT540-5way Junction Box



The load cell junction / summation box allows for easy connection / summation of up to 4 load cells to be connected in parallel to the load cell instrumentation. Features of the junction / summation box include an IP65 protection rating,

removable connectors for easy connection and fault finding, a bi-color LED for load cell voltage excitation indication and a

clear lid for easy fault finding.

Features

Easy connection / summation of up to 4 load cells in parallel IP65 Protection rating

Bi-color LED indicating the presence of ac/dc load cell excitation voltage or

incorrect dc polarity

Supports 4 or 6 wire load cells

Clear lid for easy fault finding

Shielded 6-wire connection to the load cell instrumentation

Removable connectors for easy fault finding

Color coded cable glands

## LT580-5way Smart Junction Box





The SMART load cell junction / summation box allows for easy connection / summation of 1 to 4 load cells to be connected in parallel to the host load cell instrumentation. The smart junction box continuously monitors each individual load cell as well the excitation voltage. A relay output is de-energised if any of the listed below alarm conditions are met or if power to the SMART junction box is off. The SMART junction box can be powered from the host weighing instruments

excitation voltage or by an external power supply.

The SMART junction box can detect an error if any of the following occurs:

- An open or short circuit on any of the load cells or connectors
- Any of the load cells are open circuit or any load cell has exceed 3.5mV/V
  - Any load cell exceeds the user set low or high mV range
  - Any of the load cells is out of balance with the user set error band  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 
    - The excitation voltage is above or below the user set limits.

The SMART junction box immediately detects fault conditions and prevents incorrect weighing and product waste. The avoidance of production downtime and ease of installation makes the SMART junction box and invaluable tool.

## LT1401-57mm Large Display



The large intelligent 7-segment display features 57mm (2.3") digits for excellent visibility up to 25m. Housed in a rugged aluminum enclosure with flanged plastic ends for easy wall mounting, model LT1400 offers 4 digits while model LT1401 has 6 digits. It supports RS232 and RS485 serial communications, with options for a 2.4GHz radio interface. A user-friendly menu allows for easy configuration, and the display can be customized for specific protocols. Applications include remote monitoring of process inputs and weighing systems. Key features include:

57mm extra-large display for visibility

4 or 6 digit models available

Rugged aluminum enclosure

Standard RS232 and RS485 interfaces

Various software protocols and modification services

Over/under range and communication error alerts

Wide input voltage range (12-30Vdc) with protection features
 Diagnostic LEDs for communication troubleshooting.

## LT1410-100mm Large Display series



The extra-large intelligent 7-segment display features 100mm (4") digits for excellent visibility up to 50m. Housed in a rugged IP65 powder-coated steel enclosure, it withstands harsh environments. Model LT1410 has 4 digits, while LT1411 has 6 digits, both offering RS232 and RS485 serial communications with various software protocols. Configuration is easy via a simple menu, and custom protocols can be accommodated. Applications include remote displays for process inputs and weighing systems.

\*Features:\*\*

100mm (4") extra-large display

Visibility at 50m distance

Rugged IP65 enclosure

Standard RS232 and RS485 interfaces

Various software protocols available
Custom protocol modifications possible

Over/under range and communication error messages

Input voltage range: 12 to 30Vdc with protection

Universal mains power supply option (90-265Vac)

RTC option available

LED indicators for communication diagnostics

## LT1260-Surge Protector



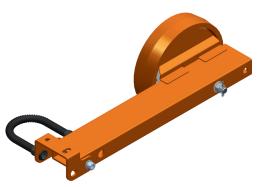
The LT1260 load cell surge protector safeguards weighing systems from overvoltage and high power impulse currents through a unique triple-stage surge protection system.

#### Key features include:

- \*\*Stage 1:\*\* Gas discharge tubes for superior differential and common mode protection.
- \*\*Stage 2:\*\* Current limiting fusible series surge resistors for fail-safe operation during extreme events.
- \*\*Stage 3:\*\* Low capacitance overvoltage diode clamp array for clamping fast transients.

It offers enhanced protection compared to traditional voltage clamp diodes and is suitable for both AC and DC load cell excitation, with an IP65 rating and support for 4 or 6 wire load cells. Additional features include a ground clamp, clear lid for easy fault finding, and shielded connections.

#### LT1322 Tacho Meter



#### Features:

Wheel Diameter 205mm

PNP/ NPN output (Customers selection) normal PNP Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

Pulse Rate is determined by speed of belt per minute -Robust and easy to install

Compliments the LT1320 Belt weighing indicator very well and can be pre-set with ease

With the LT1322 tacho meter, one can afford to measure the belt speed.

It is made from alloy steel and poweder, spares are off the shelf items as well. It is the most affordable Tacho meter in the market

## LT1920 Load Cell Simulator



The LT1920 is a portable load cell simulator that generates fixed calibrated mV/V output step signals that can be used to test, troubleshoot and calibrate load cell installations. The LT1920 has an equivalent bridge impedance of 350Ohms and can generate a mV/V output signal between -0.5 and +4.5mV/V.

1 Features

Portable on site load cell simulator
Generates fixed calibrated mV/V output step signals that can be
used to test, troubleshoot and calibrate
load cell installations

Nine calibrated outputs. Eight 0.5mV/V steps from -0.5mV/V to 3.0mV/V and a 4.5mV/V output Equivalent bridge impedance of 350Ohms

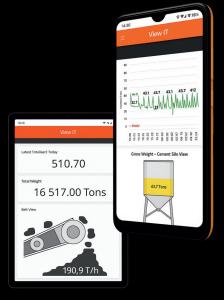
Binding posts color coded to ISA S37.8 standard and will accept
banana plugs or 14 gauge wire
Accepts excitation voltage up to 15Vac/dc



# ViewIT more data, more Value

Mobile-Optimized Interface
Designed for phones, tablets, and desktops,
ViewIT offers a responsive and user-friendly
interface tailored for on-site supervisors,
plant managers, and technical teams.
Remote Monitoring & Alerts
Stay ahead of downtime with proactive
alerts. Know when your silo is nearing
capacity, your conveyor is over- or
underperforming, or if unusual trends
emerge in your production flow. Historical
Logging & Reporting
Automatically log time-stamped weight data

and generate reports for auditing,





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