



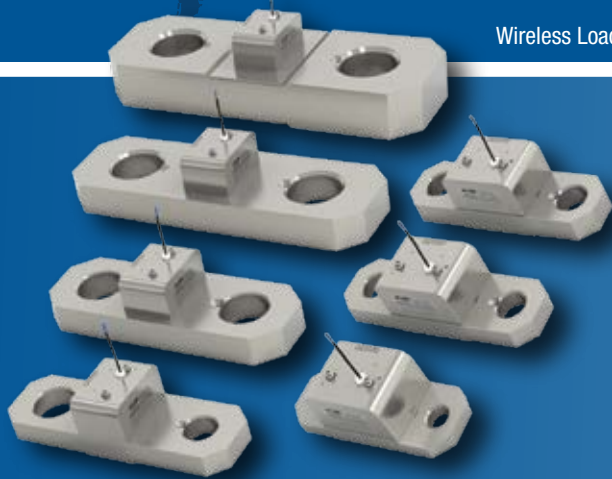
# Weighing Sensors

Wireless & Cable-Based Load  
Monitoring & Indication

# TRIMBLE LIFTING SOLUTIONS WEIGHING SENSORS

Wireless & Cable-Based Options

LSI-ROBWAY  
IS NOW  
TRIMBLE LIFTING  
SOLUTIONS



Wireless Load Cells

## Wireless Load Cell design features include:

- Standard single part line pull sizes ranging from 5,000 – 600,000 lbs (2.5 – 300 Tons)
- Typical accuracy:  $\pm 1\%$  of rated capacity on a single part of line
- Communication range: 4,300 feet (1,300 meters)
- Operating temperature:  $-40^{\circ}\text{F}$  to  $+185^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ )
- 2 years battery life under normal operation
- Potted electronics for increased waterproof protection

## Wireless Stainless Steel Tensiometer design features include:

- Ideal for marine/offshore and mooring line applications and barge cranes
- Available for wire rope sizes of 3/8" (9.5 mm) to 4" (102 mm) in diameter
- Option to monitor rope payout, speed & direction
- Rope payout accuracy: 1" (25.4 mm)
- Load reading precision:  $\pm 3\%$  of rated capacity
- Single-line capacity up to 450,000 lbs (250,000 kgs)



Stainless Steel  
Wireless Tensiometers

## Wireless Load Pin design features include:

- Ideal when maximum hook height is critical
- Typical accuracy:  $\pm 1\%$  on a single part of line
- Communication range: 4,300 feet (1,300 meters)
- Operating temperature:  $-30^{\circ}\text{F}$  to  $+180^{\circ}\text{F}$  ( $-35^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ )
- 2 years battery life under normal operation
- Potted electronics for increased waterproof protection



Wireless Underhook  
Load Cell

Wireless  
Load Pin

## Low-Cost | Lightweight & Portable Aluminum

### Wireless Underhook Load Cell design features include:

- Affordable for a wide range of applications & industries
- Standard single part line pull sizes ranging from 11,000 – 1,100,000 lbs (5 – 500 tonnes)
- Typical accuracy:  $\pm 1\%$  of the WLL
- Operating temperature:  $-31^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  ( $-35^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )
- Communication range: 4,300 ft (1,300 m)
- 2 years battery life under normal operation
- Potted electronics for increased waterproof protection



Find out about  
the Load Cell  
Communicator  
Software on page 17



## Cable-Based Tensiometer design features include:



Mini Tensiometer  
for Small Wire  
Rope Diameters

- Available in stainless steel, dual wire, and for small wire rope diameters
- Can be mounted anywhere over the hoist rope that will not interfere with hoist operation

Cable-Based  
Stainless Steel  
Tensiometer



Wire Rope  
Tensiometer



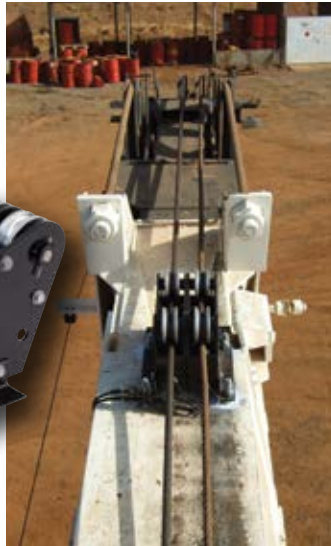
Cable-Based  
Load Pin

## Cable-Based Load Pin design features include:

- Operating temperature: -30°F to +180°F (-34°C to +82°C)
- Made from stainless steel
- Custom sizes available on request



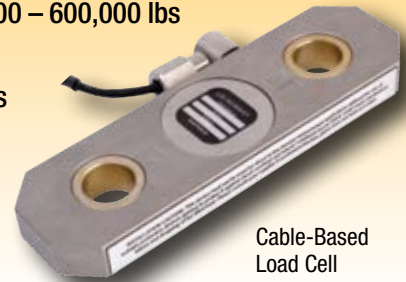
- 6 to 250 Tons maximum line pull capacities available
- Rope diameters available ranging from 0.79" to 3" (20mm to 76mm)



Dual Wire  
Rope Tensiometer

## Cable-Based Load Cell design features include:

- Operating temperature: -40°F to +185°F (-40°C to +85°C)
- Capacity range: 1,100 – 600,000 lbs (0.5 – 300 Tons)
- Made from stainless steel, ideal for marine/offshore and other demanding environments



Cable-Based  
Load Cell

Cable-Based  
Pressure  
Transducers



## Cable-Based Pressure Transducers design features include:

- Pressure range: 0 – 5,000 psig (0 – 350 bar)
- Typical pressure accuracy: ±0.5% full scale
- Operating temperature: -13°F to +185°F (-25°C to +85°C)
- Made from stainless steel

## Wireless Transmitter & Pressure Transducer LMI System design features include:

- Operating temperature: -40°F to +150°F (-40°C to +65°C)
- Potted electronics for increased waterproof protection
- 1–3 years battery life under normal operation
- Designed for proportional & non-proportional hydraulic cranes
- Wireless LMI system with two pressure transducers that read the rod & bore side pressures of the hydraulic lift cylinders
- Pressure range: 0 – 3600 psi (0 – 248 bar)
- Pressure resolution: 1 psi (0.069 bar)
- Typical pressure accuracy: 5 psi (0.345 bar)
- Communication range: 4,300 feet (1,300 meters)



Wireless Transmitter &  
Pressure Transducers  
for Hydraulic Cranes

