The iLoad Digital USB load cells offer direct measurement of loads via the USB port of a PC. No need for signal conditioners, data acquisition systems or special software. Just connect and start measuring!

**Highlights**

**Capacitive Load Cell Technology**
- Plug and Sense Simplicity
- Digital Integrated Electronics
- Standard USB output
- Power supplied via USB port
- Integrated power conditioning
- Stored calibration

**Rugged Construction**
- Compact design with low profile
- Stainless steel construction
- Mechanically robust
- Weather resistant packaging available

**Easy Attachments**
- Convenient mounting on top and bottom of sensor
- Self balancing three point support on base

**Multiple Load Cell Capacities**

**Compression Load Cells**
- iLoad Digital 10 pounds
- iLoad Digital 50 pounds
- iLoad Digital 100 pounds
- iLoad Digital 250 pounds
- iLoad Digital 500 pounds

**Tension Load Cells**
- iLoad Digital 10 pounds
- iLoad Digital 50 pounds
- iLoad Digital 100 pounds

**Overview**

Loadstar’s iLoad Digital USB load cells provide unprecedented integration of sensing and measurement electronics to provide Plug and Sense™ simplicity for load and force measurements.

**Load Sensing Made Easy!**

- Precise
  - Accuracies from 0.15% to 0.05% of full scale
- Rugged
  - Stainless steel construction.
  - Environmentally protected.
- True USB
  - No need for signal conditioning or data acquisition system
- Easy Mounting
  - Threaded mounting holes for easy attachment using standard fixtures

**Here’s How It Works**

Simply connect the digital load cell to a PC via the USB port. The digital load cell appears on the PC as a virtual COM port. Using a standard terminal emulator send commands to the sensor to display loads on screen. They can either be one at a time or in continuous operation mode. Alternatively use an application (LoadVUE or LoadVUE Lite) to simplify load measurements on a PC.
Suggested Mounting

The load cell is circular with a gentle dome (4-in. radius) on its upper surface. The flat bottom surface has three slightly stepped areas 120° apart with mounting holes tapped to accept #4-40 screws. Mount the load cells on a flat surface and apply loads perpendicular to the sensor body. Off-center or laterally-applied loads will reduce accuracy. Avoid side loads and twisting loads.

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