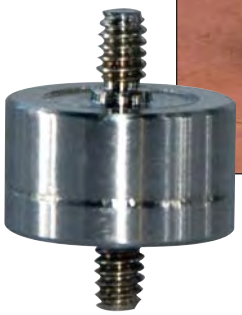
Series VLU850

Subminiature Tension/Compression Load Cell

VLU850

Standard Features

- **Subminiature**
- **Tension / Compression**
- **Welded Stainless Steel**
- **0.50% Accuracy**
- **-40° to 250° F Operation**
- **mV/V Output**



Shown (above) actual size

Standard Specifications

Performance	
Capacities	10, 25, 50, 100, 250, 500, 1000 lb.
Output	2 mV/V Nominal.
Accuracy	0.50% BFSL.
Compensated Temperature Range	70°F to 170°F.
Operating Temperature Range	-40°F to 250°F.
Temperature Effect on Zero	0.01% FSO/ F.
Temperature Effect on Span	0.01% Reading/ F.
Zero Balance	3% FSO.
Bridge Resistance	350 Ohms Nominal.

Mechanical Characteristics	
Calibration	5 Points (0, 50%, 100%, 50%, 0) Tension/Compression.
Static Overload Capacity	150% FSO.
Construction	Welded stainless steel.

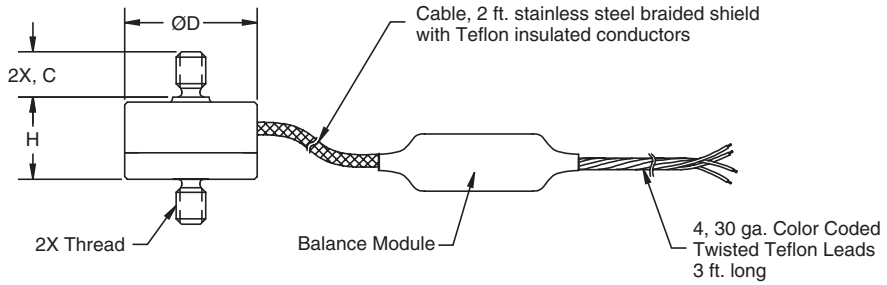
Electrical Characteristics	
Excitation	5 Vdc or Vac.
Insulation Resistance	Greater than 5000 megaohms at 50 Vdc at 70°F.
Electrical Termination	5', 4 Conductor Shielded Teflon Cable with Integral Balance Board.
Wiring	RED +EXE BLACK - EXE GREEN - SIG WHITE +SIG

Your Application-Solution Source℠

Series VLU850
Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Dimensions (inches)



Capacity (lbs.)	ØD	Thread	C	H
10, 25, 50, 100	0.50	4-40 UNC	0.17	0.31
250, 500, 1000	0.75	1/4-28 UNF	0.31	0.40

Available Options

Threads	Metric.
Compensated Temperature Range	From -65°F up to 400°F.
Operating Temperature Range	From -65°F up to 400°F.
Calibration	Additional calibration points (in addition to standard 5 points) available (Consult Factory) Special and custom calibration available (Consult Factory)
Calibration Type	Compression Only. Tension/Compression.
Amplifiers	In-Line (Consult Factory). • Analog (4-20 mA; ±5 Vdc; ±10 Vdc). • Digital (RS-232; RS-485; CANbus; MODbus).
Calibration Range	Special full scale ranges (Example: 75 lb).
Base Plates	Base plate kits can be installed at factory for calibration.
Cable Length	Cable length specified.
Cable Connector	Add a connector to the end of the cable. Consult factory for available connectors.
Custom Options	Other unlisted customer requested options welcome.

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NOTES: When using a load cell the user must consider load ratings and fatigue life for long term use and structural integrity. Critical loading applications, especially overhead loading, must always be designed with safety redundant load paths.
MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. Specifications subject to change without notice.
WARRANTY: Stellar Technology warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Stellar Technology's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

ISO 9001:2000

Find More Information at: stellartech.com

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

Datasheet P/N: 231861B

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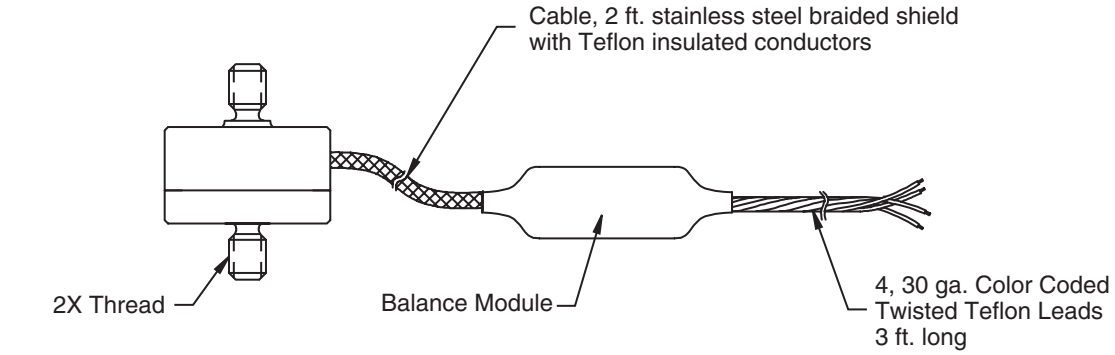
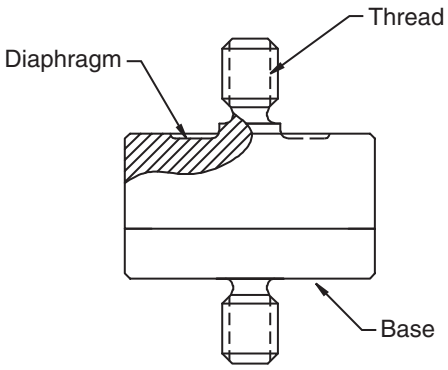
STELLAR TECHNOLOGY INCORPORATED

Series VLU850

Installation Guide

INSTALLATION





Installation

1. **CAUTION** - Do not over-torque the threads on installation (See chart, below). Over-torquing may result in damage to the unit.

Capacity	Thread	Max. Torque
10, 25, 50, 100	4-40 UNC	64 In-Oz
250, 500, 1000	1/4-28 UNF	90 In-Lbs

2. **CAUTION** - Do not overload. Low capacity load cells may be damaged if squeezed or handled incorrectly.

3. **CAUTION** - Do not load on diaphragm. Only load utilizing the threads. Damage and/or false readings may occur if the diaphragm is loaded..

Datasheet P/N: 232436A

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