

# Series LDP990

Clevis Pin Load Cell

## Standard Features

- Tension/Compression
- All Welded Stainless Steel
- -65° to 250° F Operation
- mV/V and Amplified Output
- Ranges to 200,000 Lbf
- Shock and Vibration Protection



## Standard Specifications

### Performance

<b>Capacities</b>	From 3000 lbs FSO to 200,000 lbs FSO (see table).
<b>Output</b>	2 mV/V nominal.
<b>Accuracy</b>	0.75% FSO BFSL nominal.
<b>Linearity</b>	0.75% FSO BFSL nominal.
<b>Hysteresis</b>	0.5% FSO typical.
<b>Repeatability</b>	0.10% FSO typical.
<b>Compensated Temperature Range</b>	70° to 170°F.
<b>Operating Temperature Range</b>	-65° to 250°F.
<b>Temperature Effect on Zero</b>	0.008% FSO/°F.
<b>Temperature Effect on Span</b>	0.005% Reading/°F.
<b>Zero Balance</b>	1% FSO.
<b>Bridge Resistance</b>	5000 Ohms nominal.

### Mechanical Characteristics

<b>Calibration</b>	5 Points (0, 50%, 100%, 50%, 0) Tension.
<b>Static Overload Capacity</b>	150% FSO.
<b>Construction</b>	Welded stainless steel.

### Electrical Characteristics

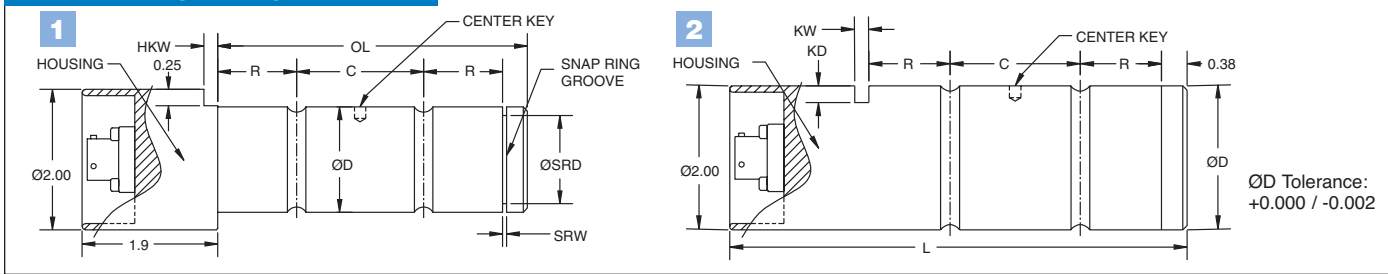
<b>Excitation</b>	10 Vdc or Vac.
<b>Insulation Resistance</b>	Greater than 5000 megaohms at 50 Vdc at 70° F.
<b>Electrical Termination</b>	PTIH-10-6P, Stainless steel connector with O-ring Seal.
<b>Connector Pins</b>	A +EXE      D - EXE B +SIG      E N/C C - SIG      F N/C

LDP990

# Series LDP990 Specifications

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

## Dimensions (inches)



1	Capacity (Lbs)	Sensor ØD	R	C	OL	Snap Ring SRW	ØSRD	Housing HKW	Center ØKey
	3000	0.500	0.50	0.75	2.1	0.039	0.468	0.20	n/a
	6000	0.750	0.59	1.00	2.6	0.046	0.704	0.20	0.156
	12,500	1.000	0.63	1.00	2.8	0.046	0.940	0.20	0.219
	18,000	1.250	0.81	1.38	3.7	0.056	1.176	0.27	0.219
	30,000	1.500	0.94	1.63	4.0	0.056	1.406	0.27	0.281

2	Capacity (Lbs)	Sensor ØD	R	C	L	Housing KW	KD	Center ØKey
	50,000	2.00	1.00	2.00	6.63	0.266	0.38	0.281
	75,000	2.50	1.25	2.50	7.63	0.266	0.50	0.281
	100,000	2.75	1.47	2.69	8.38	0.406	0.50	0.406
	125,000	3.00	1.44	3.00	8.75	0.406	0.63	0.406
	160,000	3.50	1.75	3.50	10.00	0.531	0.63	0.531
	200,000	4.00	2.25	4.00	11.75	0.531	0.75	0.531

## Options

<b>Dimensions</b>	Custom dimensions welcome.
<b>Compensated Temperature Ranges</b>	From -65° to 400° F.
<b>Operating Temperature Ranges</b>	From -65° to 400° F.
<b>Calibration</b>	Additional calibration points (in addition to standard points). Special and custom calibrations.
<b>Amplifiers</b>	Internal and/or In-Line. • Analog (4-20 mA; 0-5 Vdc; 0-10 Vdc). • Analog (4-20 mA; intrinsically safe - ATEX and CSA). • Digital (RS-232; RS-485; CANbus; MODbus).
<b>Calibration Range</b>	Special full scale ranges (Example: 740 lb).
<b>Cables and Cable Length</b>	Many types. Specify Cable length.
<b>Connectors</b>	Mounting Styles. Bolt on: Radial, tangential, axial or custom with O-ring Welded hermetic. Bolt on with back-up hermetic seal. Many connectors. (PT04, MS3102, and more) Connector guards.
<b>Shackle Kit</b>	Shackle, roller, and orientation bracket.
<b>Sealing</b>	Hermetic seal, O-ring Seal, or combinations.
<b>Submersible</b>	To depths of 16,000 feet deep (sea water).
<b>Custom Options</b>	Other 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.

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