



# FLAT LOAD CELLS®

Strainert has been designing and manufacturing precision Flat Load Cells® for nearly half a century. Strainert has always been and continues to be a pioneer in the manufacturing of high quality precision load cells.

## Outstanding Features

- Precision Accuracies
- Standard Capacities from 250 lbs. up to 2,000,000 lbs.
- Low Profile, Rugged, Compact & Lightweight
- Dual and Single Bridge Options
- 2-mv/V or 3-mv/V Output (Nominal)
- Low Deflection
- High Frequency Dynamic Load Sensing
- Pressure Compensating
- Sealed Strain Gages
- Counterbored Mounting Holes
- Low Sensitivity to Extraneous Loads
- High Static Overload
- Highest Fatigue Rating in the Industry – One Billion Fully Reversed Cycles (Fatigue Rated Models)



U.S. Patent No. 3,365,689

## PERFORMANCE SPECIFICATIONS

PARAMETERS	General Purpose		Precision	
	2	3	2	3
Rated Output – mv/V (Nominal)				
<b>ACCURACY</b>				
Non-Linearity - % Full Scale	± 0.25	± 0.25	± 0.10	± 0.10
Hysteresis - % Full Scale	± 0.15	± 0.15	± 0.10	± 0.10
Non-Repeatability - % Full Scale	± 0.05	± 0.05	± 0.05	± 0.05
<b>ENVIRONMENTAL</b>				
Compensated Range – °F	60 to 150	60 to 150	60 to 150	60 to 150
Effect on Zero - % Full Scale / °F	± 0.0035	± 0.0035	± 0.0035	± 0.0035
Effect on Output - % Load / °F (Nominal)	± 0.0030	± 0.0030	± 0.0030	± 0.0030
<b>ELECTRICAL</b>				
Excitation Voltage – V ac or dc (Maximum)	15	15	15	15
Bridge Resistance – Ohms (Nominal)	350	350	350	350
Zero Balance - % Full Scale	± 2	± 2	± 2	± 2
Insulation Resistance – Megohms (Minimum)	10,000	10,000	10,000	10,000
<b>MECHANICAL*</b>				
Safe Static Overload without Zero Shift - % FS	200	150	200	150
Safe Static Overload without Output Shift - % FS	200	150	200	150
Safe Static Overload without Structural Failure - % FS	250	200	250	200

\* See pages 70 and 71 for further information on mechanical properties of Universal Flat Load Cells.

<b>Receptacle:</b>	PT02H-10-6P	<b>Cable:</b>	#20(26x34) AWG., rubber insulation, shielded, rubber jacket, 4-Conductor (Standard Cable)
<b>Mating Plug:</b>	PT06A-10-6S (SR)	<b>Function</b>	Wire Code
Function	Pin	<b>(+) Excitation</b>	Red
(+) Excitation	A	<b>(-) Excitation</b>	Black
(-) Excitation	D	<b>(+) Signal</b>	Green**
(+) Signal	B**	<b>(-) Signal</b>	White**
(-) Signal	C**		

\*\* Electrical designation shown is for Universal Flat Load Cells®; for Compression Flat Load Cells®, the signal leads are reversed.