

Vibrating Wire Load Cells

Description

Vibrating Wire Load cells are available in both solid and annular styles to monitor compressive loads. Load elements are manufactured from high tensile, heat treated, stress relieved steel, with precision bearing surfaces. Machined overall, high tensile matching load platens are recommended to provide a smooth parallel bearing surface and spread the load.

Solid style cells incorporate 3 to 6 Vibrating Wire strain sensing elements mounted parallel to the longitudinal axis of the cell.

Annular cells incorporate 3 to 6 vibrating wire strain sensors, mounted parallel to the longitudinal axis, equidistant around the circumference.

With the multi sensor configuration, it is possible to obtain accurate readings under mildly eccentric loading conditions, as the sensors are read individually. In multi strand anchors, it is possible to tension the strands uniformly by monitoring the load in each sensor as appropriate.

The electrical cable to the readout may be either hard wired to the cell or connect via a metal Mil-spec type bayonet connector.

VIBRATING WIRE LOAD CELL SPECIFICATIONS

ITEM	SPECIFICATION
Capacity	445 kN to 4450 kN (100,000 to 1,000,000 lbs)
Overrange Capacity	150% full scale
Sensitivity	0.01% full scale
Accuracy	0.5% full scale
Temperature Range	-20°C to +80°C
Material	High tensile, stress relieved steel
Hole Size	As requested

SPECIFICATIONS