

Tendon Tension Monitoring System

The monitoring of tendon tension on a TLP, ETLP is critical to safe operations. IMES has extensive experience in the design of mooring measurement systems with over 20 years experience of tendon tension measurement.



The system is based on three precision height IP68 sealed subsea load cells. IMES experience extends to include the design and supply of load and tension sensors for subsea and offshore marine use. The use of 3 load cells allows the total tendon tension to be monitored for gain or loss in tension as well as changes in loading on individual cells indicative of directional load movement or torsional effects.

SPECIFICATION:

Design Life	30 Years
Rated Load	To 6000kip
Working Overload	150%
Ultimate Overload	250%
Overall Accuracy (combined)	0.25% of Full Load
Linearity	0.1% of Full Load*
Repeatability	0.2% of Full Load
Hysteresis	0.2% of Full Load
Side Load Error 2° Angle	0.46% of Load
Resolution	1 in 16,000
Zero Temperature Coefficient	±0.003%/°C (of reading)
Compensated range	-10 to 70°C
Span Temperature Coefficient	±0.002%/°C (of reading)

Our subsea and topside loadcells have been installed on a large base of offshore installations around the world on a variety of platforms ranging from 16 Tendon TLP mooring and Pontoon types.

For more information or to discuss your requirements please contact:

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