

Series CTH930

Pump Off Control Polished Rod Load Cell



Standard Features

- Full scale capacities to 50,000 lbf.
- 0.25% BFSL accuracy
- All welded stainless steel
- 2 mV/V output
- Transient voltage protection
- Removable sealed cover for cable replacement
- Shock and vibration rated
- Operating Temperature of -40°F to 180°F
- NIST Traceable Calibration Record
- Fatigue life of 50,000,000 cycles
- 150% overload without damage

Description

The Series CTH930 load cells are designed specifically for the polished rod of an oilfield pump off control system. Each of these load cells is designed to meet the rigorous performance standards required in the harsh environment of an oilfield production site. These 0.25% accuracy load cells are constructed of all welded stainless steel, are hermetically sealed, and have a robust cable strain relief. These application specific load cells have transient voltage protection for lightning and/or power line surges. Each load cell is shock and vibration rated during the manufacturing process. Electrical output is 2 mV/V and as mV/V units, these passive devices are inherently intrinsically safe. Standard full scale capacities range from 30,000 lbf. to 50,000 lbf. Customer specific configurations can also be designed.

Optional Features

- Special Load Ranges
- Special multipoint calibrations
- Customer specific configurations
- Installation kits (bearing plate and spherical washers)
- Customer specific cable lengths
- High level outputs (analog & digital)

Performance

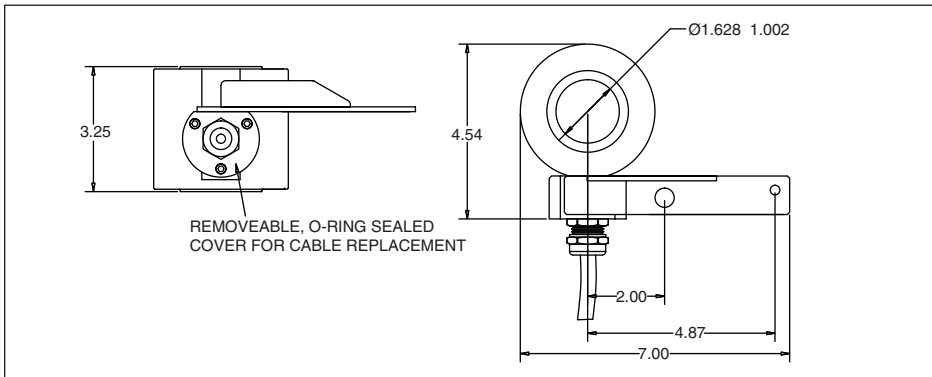
Capacities	30,000 lbs. to 50,000 lbs. FSO.
Output	2 mV/V nominal.
Compensated Temperature Range	0°F to 150°F.
Operating Temperature Range	-40°F to 180°F.
Temperature Effect on Zero	0.002% FSO/°F.
Temperature Effect on Span	0.002% Reading/°F.

CTH930

Series CTH930 Specifications

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

Dimensions (inches)



Mechanical Characteristics

Calibration

5 Points (0, 50%, 100%, 50%, 0)
Compression.

Static Overload Capacity

150% FSO.

Construction

Welded Stainless Steel.

Electrical Characteristics

Excitation

15 VDC or VAC Max.

Environmental Characteristics

Temperature Effect on Zero

0.002% FSO/°F.

Temperature Effect on Span

0.002% Reading/°F.

CE

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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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