



ENGINEERING SPECIFICATIONS

Model GTSC-8 Guardian® Hydraulic Load Cell Conversion Kit

- Conversion of scale shall use hydraulic load cells and capacity will be 50,000 lbs.
- The scale shall have 8 hydraulic load cells Cardinal model SST-50.
- The converted scale shall have a capacity 100 tons.
- All load cells are to be of compression hydraulic type and shall have a minimum capacity of 50,000 pounds and a 150% safe overload rating.
- Load cell shall be certified by NTEP and meet the specifications as set forth by the National Institute of Standards and Technology, Handbook 44, current edition for Class IIIIL multiple cells, 10,000 divisions. The manufacturer shall provide a NTEP Certificate of Conformance attesting to compliance with these requirements. Provisional NTEP Certificates are not acceptable.
- Load cells shall output a hydraulic pressure signal to a corresponding pressure transducer at the totalizer junction box. The outputs from the pressure transducers shall be electrically summed with provisions for adjustment of individual load cells provided. Totalizers employing a mechanical summation of load cell pressures and/or utilizing shims are not acceptable.
- **The load cells shall have a lifetime warranty.**
- The load cell tubing shall be copper with 1/8" OD.
- The load cells shall be provided with sufficient tubing to reach totalizer junction box.
- Temperature compensation shall take place within the pressure transducer circuitry.
- The load cell shall be constructed from stainless steel and environmentally sealed to NEMA 6/IP68.

SPECIFICATIONS

Safe Overload:	150%
Ultimate Overload:	300%
Nominal Output:	1800 psi
Pressure Transducer Output:	1mv/v
Temperature Range	
Compensated:	-10 to +40 degrees C
Operating:	-20 to +70 degrees C
Accuracy Class:	IIIIL
Capacity:	50,000 pounds
V-min:	3.8 pounds

