

**THE  
GUARDIAN**<sup>™</sup>

**HYDRAULIC  
TRUCK SCALE**



*The Ultimate in Vehicle  
Scale Protection*

Hydraulic load cells are the most rugged and long-lasting weighing device available in the scale market. Cardinal's extensive truck scale experience has culminated in developing The Guardian Hydraulic Truck Scale, the most dependable truck scale you can buy.

# CARDINAL HYDRAULIC TRUCK SCALES

## SEVERE-DUTY RATED PROTECTION



### LIGHTNING AND POWER SURGES

Cardinal's hydraulic load cells, the heart of the Guardian, are immune to electrical surges and from lightning damage. The instrumentation includes transient suppression to provide superior protection.

MODEL	PLATFORM SIZE	TONS CAPACITY	CLC* TONS
<b>Guardian Steel Deck Hydraulic Truck Scale Models</b>			
H4020-EPR	20' x 11'	40	40
H7040-EPR	40' x 11'	70	40
H8050-EPR	50' x 11'	80	40
H11060-EPR	60' x 11'	110	40
H13570-EPR	70' x 11'	135	40
H13580-EPR	80' x 11'	135	40
H13590-EPR	90' x 11'	135	40
H135100-EPR	100' x 11'	135	40
H135120-EPR	120' x 11'	135	40
<b>Guardian Concrete Deck Hydraulic Truck Scale Models</b>			
H4020-EPR-C	20' x 11'	40	40
H7040-EPR-C	40' x 11'	70	40
H8050-EPR-C	50' x 11'	80	40
H11060-EPR-C	60' x 11'	110	40
H13570-EPR-C	70' x 11'	135	40
H13580-EPR-C	80' x 11'	135	40
H13590-EPR-C	90' x 11'	135	40
H135100-EPR-C	100' x 11'	135	40
H135120-EPR-C	120' x 11'	135	40
<b>Guardian Concrete Deck Pit Type and Axle Load Scales</b>			
H3010ASRC-I	10' x 10'	30	30
H3012ASRC-I	12' x 10'	30	30
H3024SRC-I	24' x 10'	30	30
H5034SRC-I	34' x 10'	50	30
H5040SRC-I	40' x 10'	50	30
H6050SRC-I	50' x 10'	60	30
H10060SRC-I	60' x 10'	100	30
H10070SRC-I	70' x 10'	100	30
H10080SRC-I	80' x 10'	100	30
H100100SRC-I	100' x 10'	100	30
H12060SRC-I	60' x 10'	120	45
H12070SRC-I	70' x 10'	120	45
H12080SRC-I	80' x 10'	120	45
H120100SRC-I	100' x 10'	120	45

\* **CLC = Concentrated Load Capacity:** The maximum axle-load concentration for a group of two axles with a center line spaced 4' apart and an axle width of 8' that can safely be applied to the scale.

## WE PROVIDE MORE INSURANCE For Your Investment

Cardinal's Guardian Hydraulic Truck Scales are ideal for the solid waste, aggregate, chemical, grain, and construction industries because they offer a high level of protection against many of the conditions that can adversely affect truck scale installations. Water, lightning, power surges, explosive areas, corrosion, welding, shock loading, extreme temperature fluctuations and even rodents can cause scale problems, all at a cost to the owner. Cardinal's Guardian Scale provides a superior level of performance which protects the scale against these conditions.



The Guardian's all-stainless steel hydraulic compression load cells are geared for applications requiring superb accuracy in a hostile environment.

# CARDINAL HYDRAULIC TRUCK SCALES

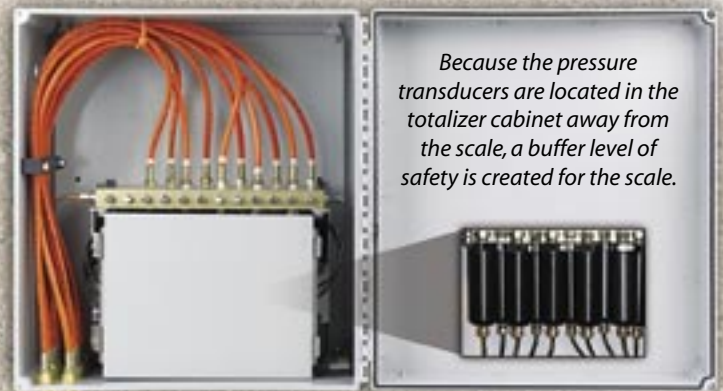
## The Ultimate in Vehicle Scale Protection



- Low-Profile or Pit Type Scales
- Concrete or Steel Decks
- Numerous Capacities and Platform Sizes Available



*The Cardinal model PTG-3K Pressure Transducers, located near the Cardinal weight indicator, are fluidly coupled to the SST hydraulic load cell to convert the pressure signal into an electrical signal.*

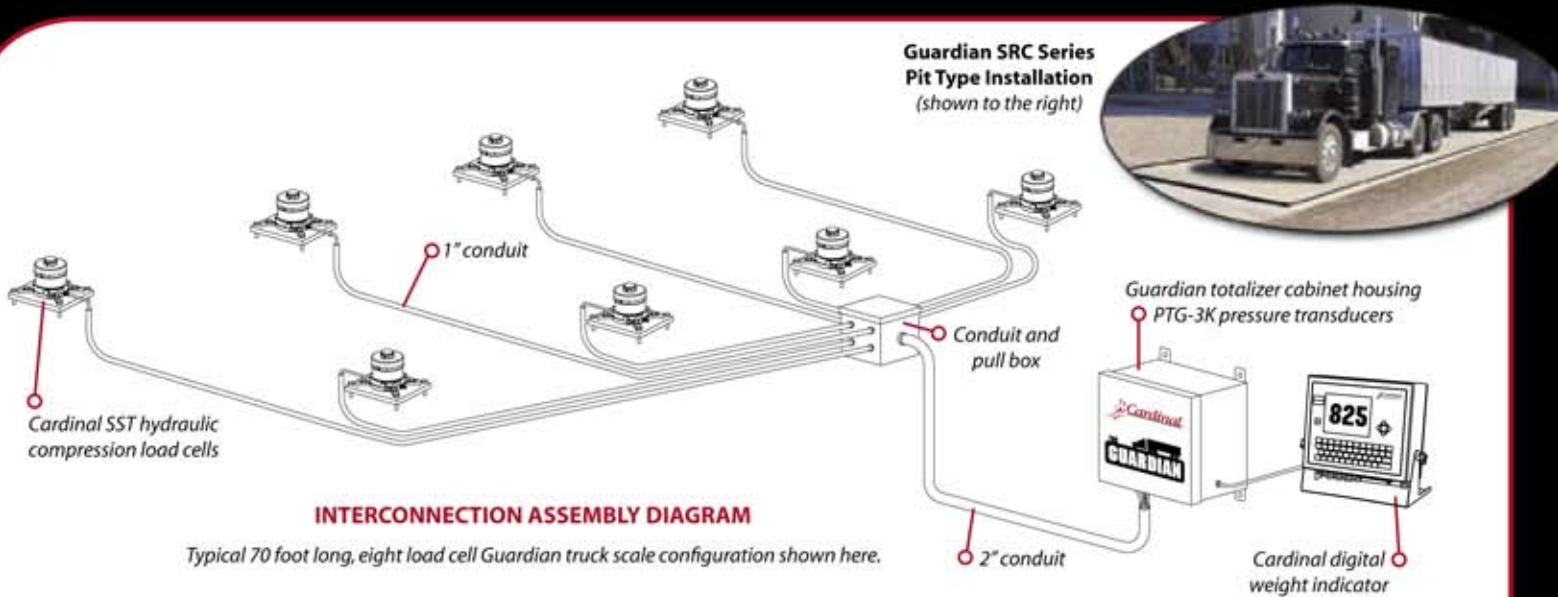


*Because the pressure transducers are located in the totalizer cabinet away from the scale, a buffer level of safety is created for the scale.*



## CARDINAL SERIES SST HYDRAULIC COMPRESSION LOAD CELLS

- 50,000 lb and 75,000 lb Capacities
- Environmentally Sealed (IP68)
- 100% Stainless Steel
- Lightning Immune Load Cells
- Rugged All-Welded Construction



The Guardian all-stainless steel hydraulic compression load cell is the ideal solution to those applications requiring superb accuracy in a hostile environment.

## SPECIFICATIONS

### SST Load Cell

**CAPACITY:** 50,000 lb and 75,000 lb  
**SAFE OVERLOAD:** 150% of capacity  
**CONSTRUCTION:** Stainless steel  
**V-min:** 3.8, 5.7 lb  
**ACCURACY:** Class IIIIL 10,000 divisions multiple cells



### PTG-3K Pressure Transducer

**RATED CAPACITY:** 3,000 PSIG  
**WORKING CAPACITY:** 1,800 PSIG  
**CONSTRUCTION:** Aluminum  
**OUTPUT:** 1 mV/V  
**OUTPUT RESISTANCE:** 350 ohms +/- 1 ohm



### 825 Spectrum Weight Indicator

**DISPLAY:** 640 x 480 pixel matrix color backlit LCD  
**ENCLOSURE:** NEMA 4X / IP66 stainless steel  
**POWER:** 90 to 264 VAC (50/60 Hz)  
**LOAD CELLS:** Up to 14 per SIB



Cardinal's Guardian Hydraulic Vehicle Scale meets or exceeds Class IIIIL, 10,000 division accuracy requirements in accordance with the NIST Handbook 44. A Certificate of Conformance Number **97-093** for the H-EPR models and **95-162** for H-SRC models, was issued under the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures.



Cardinal's model SST Hydraulic Load Cell meets or exceeds Class IIIIL, 10,000 division accuracy requirements in accordance with the NIST Handbook 44. A Certificate of Conformance Number **05-076**, was issued under the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures. The CC specifies the maximum number of scale divisions (n-max), load cell verification interval (v-min), and capacities for the Model SST load cell family.

Cardinal Scale reserves the right to improve, enhance, or modify features and specifications without prior notice.

**Cardinal**  
Cardinal Scale Manufacturing Co.

Sold By:

**Gulf Atlantic**

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