

THTC

COMPLETE LOAD CELL KIT FOR SUSPENSION WEIGHING

Suspended Weighing Applications:

- Hoppers
- Tanks

- 16 models available in 3 or 4 cell arrays
- Environmentally-sealed, stainless steel load cells
- Resilient to temperature, moisture, and vibration fluctuations
- Special length rods available in custom sizes
- J-bolts instead of rods also available



THTC

SERIES

SUSPENDED TANK AND HOPPER WEIGHING

Cardinal Scale's robust component construction, exemplary quality, and low-profile design highlight industry-leading load cell kits which provide consummate performance. The THTC suspension load cell kits are essential for converting a suspended hopper or tank into a reliable weighing apparatus. THTC kits are ideal for environments when floor-level restrictions include equipment, sanitary issues, or load-out applications. These load cell kits range from light-to-heavyweight applications—750 lb to 80,000 lb capacities. Cardinal Scale's assembly hardware compensates for apparatus movement, misalignment, and fluctuation.

The THTC's stainless steel load cells and mild steel linkage system provide a durable, reliable system for suspension weighing. The THTC load cell kits come with linkage options such as threaded rods, J-bolts, or a combination of a threaded rod and a J-bolt as well as custom-length rods. Each load cell kit comes complete with three or four linkage assemblies, stainless steel tension load cells, mild steel linkages, stainless steel junction box, and load cell cables.

Cardinal Scale's THTC suspension kit also includes ball joint rod ends that are equipped with Teflon isolators for lightning protection.

- Time-tested design for quick and easy installation
- Stainless steel junction box for circuitry corrosion protection
- Systems capacities ranging from 750 lb to 80,000 lb
- NTEP, OIML, and VCAP certified load cells
- Ideal kit for suspended hopper and tank scales
- Joint rod ends equipped with Teflon isolators
- Provides reliable and repeatable loading in every application

Model THTC1-1-JR

Model THTC1-1-JR tension load cell and linkage assembly with built-in isolator (shown to the right).

In the THTC's standard 2R Assembly --which includes the load cell adapters and straight threaded rods -- the load cell adapters connect to threaded rod ends.

J-bolts instead of rods are also available for the linkage assembly.

The suspension load cell connects to two load cell adapters on both sides of the load cell.

Model THTC1-4

Suspension load cells are sealant potted in models ZX-250 through ZX-1000 to provide strain gauge protection against moisture, temperature, and sediment damage. Load cell models ZX-2500 and higher are cupped and welded shut for superior protection.

A grounding strap is attached to load cell adapters for electrical discharge protection.

Cardinal Scale's linkage assemblies are constructed for maximum durability and a wide array of applications. The complete load cell adapter and thread rod assembly are Teflon isolated at the load cell.

THTC

COMPLETE LOAD CELL KIT FOR SUSPENSION WEIGHING

SPECIFICATIONS:

LOAD CELL	Type	Potted sealants or welded cups depending on capacity, environmentally sealed, stainless steel construction (Load cell weight ranges from 250 lb – 20,000 lb)
	Cable	20 ft / 6 m
	Grounding Strap	Included for discharge protection
	Rod Ends	Ball joint design
	Teflon Isolators	Prohibit environmental electrical discharge
JUNCTION BOX	Cable Length to Indicator	30 ft / 9 m with 9-pin D connector
	Type	Enclosure is NEMA 4, stainless steel with fully gasketed cover (Range \pm 10%)

All systems need to be safety-checked or chained to prevent failure.

	Cell Capacity	System Capacity	Shipping Weight	
3-CELL	THTC250-3	250 lb - 115 kg	750 lb - 345 kg	30 lb
	THTC500-3	500 lb - 225 kg	1,500 lb - 675 kg	36 lb
	THTC1-3	1,000 lb - 455 kg	3,000 lb - 1,360 kg	38 lb
	THTC2.5-3	2,500 lb - 1,135 kg	7,500 lb - 3,450 kg	40 lb
	THTC5-3	5,000 lb - 2,270 kg	15,000 lb - 6,810 kg	69 lb
	THTC10-3	10,000 lb - 4,535 kg	30,000 lb - 13,600 kg	75 lb
	THTC15-3	15,000 lb - 6,800 kg	45,000 lb - 20,400 kg	120 lb
	THTC20-3	20,000 lb - 9,070 kg	60,000 lb - 27,200 kg	165 lb
4-CELL	THTC250-4	250 lb - 115 kg	1,000 lb - 460 kg	35 lb
	THTC500-4	500 lb - 225 kg	2,000 lb - 900 kg	42 lb
	THTC1-4	1,000 lb - 455 kg	4,000 lb - 1,815 kg	53 lb
	THTC2.5-4	2,500 lb - 1,135 kg	10,000 lb - 4,535 kg	63 lb
	THTC5-4	5,000 lb - 2,270 kg	20,000 lb - 9,080 kg	87 lb
	THTC10-4	10,000 lb - 4,535 kg	40,000 lb - 18,140 kg	95 lb
	THTC15-4	15,000 lb - 6,800 kg	60,000 lb - 27,200 kg	203 lb
	THTC20-4	20,000 lb - 9,070 kg	80,000 lb - 36,200 kg	215 lb

All systems need to be safety-checked or chained to prevent failure. A qualified engineer should be consulted that has determined the vessel to be used is structurally sound and capable of being supported by three or four points when filled to capacity.

OPTIONS:

Threaded rods, J-bolts, or a combination of both, come as options for linkage systems.



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

Cardinal
 Cardinal Scale Manufacturing Co.
 203 E. Daugberty, Webb City, MO 64870 USA
 Ph: 417-673-4631 or 800-441-4237 • Fax: 417-673-5001
www.CardinalScale.com

Mobile: m.cardinalscale.com

SOLD BY: