

# CANISTER LOAD CELL

## TCP1/TCSP1



## Superior Quality, Stainless Steel Canister Load Cells from Totalcomp

- ✓ *Stainless Steel Housing.*
- ✓ *Reliable - Durable - Precise.*
- ✓ *Hermetically Sealed.*
- ✓ *30 ft. cable, four conductor.*
- ✓ *Capacities from 10K to 500K.*
- ✓ *Exceeds NEMA 6 and IP67 hosedown.*

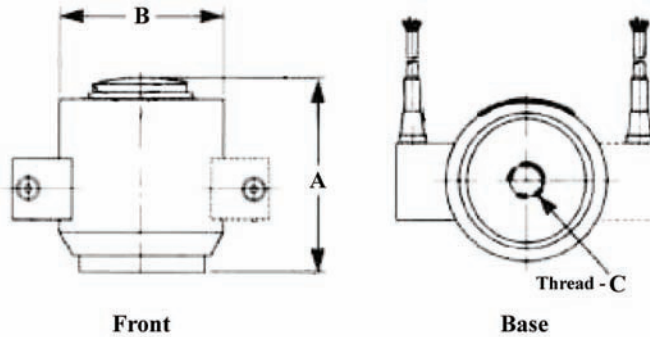


**Totalcomp**<sup>®</sup> Scales & Components

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## TCP1/TCSP1

# TCP1/TCSP1 HIGH ACCURACY CANISTER LOAD CELL

The *Totalcomp* TCP1 and TCSP1 series are industrial quality, compression type, Canister Load Cells. These load cells are constructed with welded, hermetically sealed, stainless steel casing to perform well under extreme environmental conditions. Typically used for weighing applications such as Truck, Track Hopper and Tank Scales.

Part Number	Capacity	Weight	A	B	T
TCP1-10K-SS	10,000 lb	7 lb	3.25	2.88	1/2-20 UNF
TCP1-25K-SS	25,000 lb	7 lb	3.25	2.88	1/2-20 UNF
TCP1-50K-SS	50,000 lb	7 lb	3.25	2.88	1/2-20 UNF
TCP1-100K-SS	100,000 lb	13 lb	5.00	4.12	3/4-16 UNF
TCP1-200K-SS	200,000 lb	29 lb	7.25	6.00	3/4-16 UNF
TCP1-300K-SS	300,000 lb	29 lb	7.25	6.00	3/4-16 UNF
TCP1-500K-SS	500,000 lb	46 lb	9.00	6.50	3/4-16 UNF

Part Number	Capacity	Weight	A	B	T
TCSP1-10K-SS	10,000 lb	7 lb	3.25	2.88	1/2-20 UNF
TCSP1-25K-SS	25,000 lb	7 lb	3.25	2.88	1/2-20 UNF
TCSP1-50K-SS	50,000 lb	7 lb	3.25	2.88	1/2-20 UNF
TCSP1-100K-SS	100,000 lb	13 lb	5.00	4.12	3/4-16 UNF
TCSP1-200K-SS	200,000 lb	29 lb	7.25	6.00	3/4-16 UNF
TCSP1-300K-SS	300,000 lb	29 lb	7.25	6.00	3/4-16 UNF
TCSP1-500K-SS	500,000 lb	46 lb	9.00	6.50	3/4-16 UNF

### Performance

#### Full Scale Output

1.75 mV/V (TCP1)  
2.00 mV/V (TCSP1)

#### Combined Error

±0.15% FS (TCP1)  
±0.05% FS (TCSP1)

#### Nonlinearity

±0.15% FS (TCP1)  
±0.05% FS (TCP1)

#### Hysteresis

±0.03%

#### Creep

±0.05% FS in 20 min

#### Non-Repeatability

±0.01% FS

#### Zero Balance

±1.0% FS

### Overload Safe

150% FS

### Overload Ultimate

400% FS

### Electrical

#### Bridge Resistance

Input 450 ohms  
Output 480 ohms

#### Excitation Voltage

10 VDC (15VDC Max)

#### Insulation Resistance

5KM ohms@50VDC

### Temperature

#### Compensated Range

-12°C to +43°C

#### Temperature Operating Range

-12°C to +43°C

#### Effect on Zero Balance

0.0013% FS/deg F

#### Effect on FS Output

0.0008% FS/deg F

### Mechanical

#### Material

Stainless Steel

#### Finish

Polished SS

#### Sealing

IP67

### Wiring

#### Cable Length & Type

30 foot, 4 conductor

#### Cable Color Code

+ Excitation.....Green  
- Excitation.....Black  
+ Output.....White  
- Output.....Red  
Shield.....Bare

### TOTALCOMP LIMITED WARRANTY

*Totalcomp* warrants this product to be free of defects in materials and/or workmanship and suitable for the purpose(s) intended as outlined on this sheet. This warranty is effective and shall cover the purchaser for one year from the date of shipment from our plant. If this product is found to be defective by our inspection in accordance with the above listed criteria, we will replace or repair it at our expense. For warranty service, please obtain a return authorization number from us and return the item, shipping prepaid, with a written description of the problem. We will respond promptly with the results of our evaluation.



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