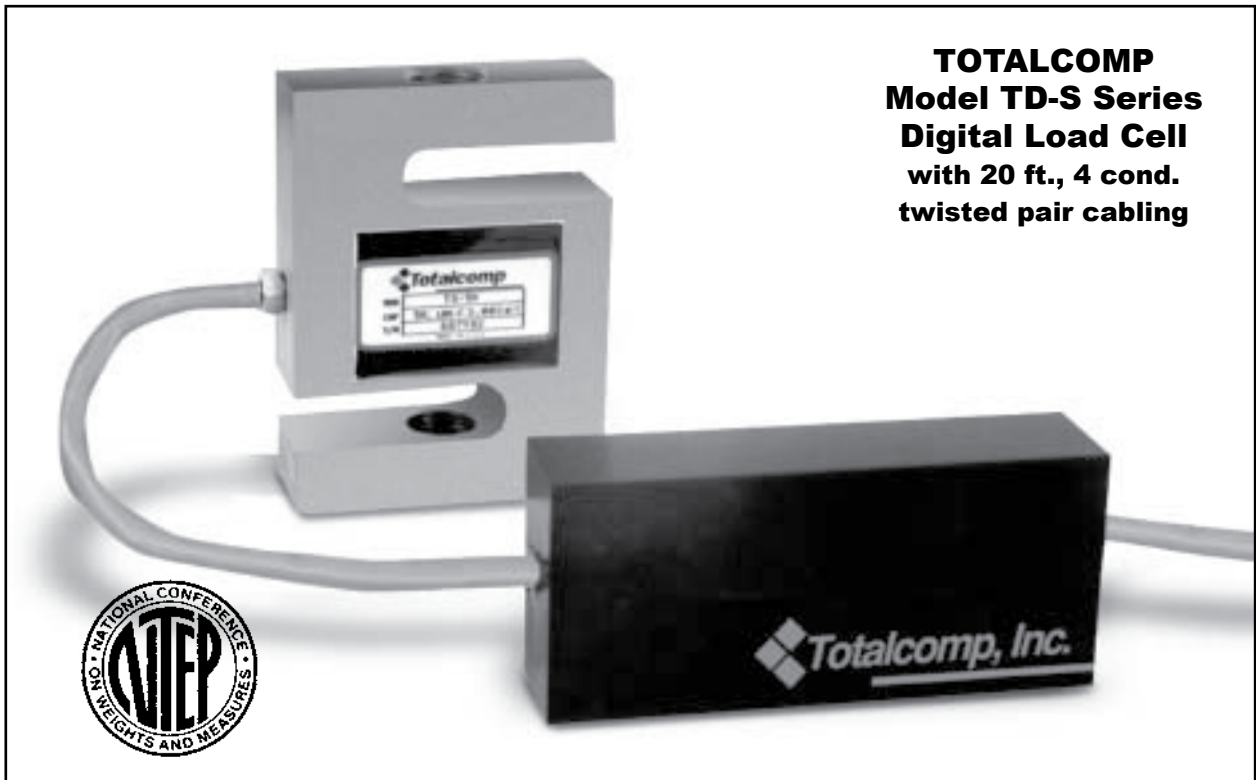


# TD-S

# DIGITAL S-TYPE LOAD CELL



**TOTALCOMP**  
Model TD-S Series  
Digital Load Cell  
with 20 ft., 4 cond.  
twisted pair cabling

## Amazing Digital Output Load Cell with Advanced Load Cell Protocol.



- ✓ **Amazing 400,000 count output.**
- ✓ **Faster, more efficient "load cell active" communications cuts service time significantly.**
- ✓ **Environmentally sealed, rugged steel construction load cell available in Stainless or Nickel Finish.**
- ✓ **RS485 with twisted pair cabling for flawless communication over greater distances than ever before.**

LOOK FOR THIS LOGO



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

99 Reagent Land • Fair Lawn, New Jersey 07410

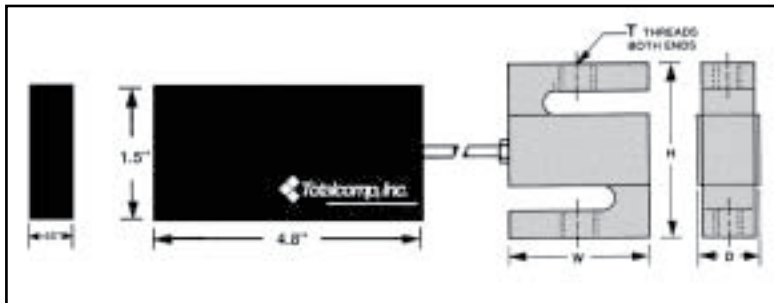
Fax: 201-797-2287 • Toll Free Fax: 888-797-2288 • Phone: 201-797-2718 • Toll Free Phone: 800-631-0347

## MODEL TD-S DIGITAL LOAD CELL WITH ADVANCED LOAD CELL PROTOCOL

### “Load Cell #6, REPORTING FOR DUTY”

Capacity	SPECIFICATIONS*			T-Thread	PART NO.	
	H	W	D		Nickel Plated	Stainless Steel
100	2.50	2.00	.75	1/4 -28 UNF-2B	TD-S-100	TD-S-100-SS
300	2.50	2.00	.75	1/4 -28 UNF-2B	TD-S-300	TD-S-300-SS
500	2.50	2.00	1.00	1/2 -20 UNF-2B	TD-S-500	TD-S-500-SS
1,000	2.50	2.00	1.00	1/2 -20 UNF-2B	TD-S-1K	TD-S-1K-SS
2,000	2.50	2.00	1.25	1/2 -20 UNF-2B	TD-S-2K	TD-S-2K-SS
2,500	2.50	2.00	1.25	1/2 -20 UNF-2B	TD-S-2.5K	TD-S-2.5K-SS
3,000	4.00	3.00	1.25	1/2 -20 UNF-2B	TD-S-3K	TD-S-3K-SS
5,000	4.00	3.00	1.25	3/4 -16 UNF-2B	TD-S-5K	TD-S-5K-SS
10,000	4.00	3.00	1.25	3/4 -16 UNF-2B	TD-S-10K	TD-S-10K-SS
20,000	7.00	5.00	2.25	1 -1/4 - 12 UNF	TD-S-20K	TD-S-20K-SS

\*Specifications do not include the size of the digital controller unit, which measures 4.8' x 1.5" x .65" and is hard wired approximately 12" from the load cell.



Totalcomp's revolutionary Digital Load Cells actively respond to the query of the indicator. The task of performance monitoring is now as simple as asking "how are you doing?".

Each Digital Load Cell comes to you programmed with it's own address with up to 256 possible addresses. This allows the load cell to respond directly and sequentially to any indicator with the Advanced Load Cell Protocol (ALCP).

Additional features of the TD-S Load cells:

- **Easy 4-wire hook-up**

Digital communication eliminates the need for sense wires.

- **Effortless long-distance communications!**

Internal excitation, twisted pair cabling, and RS485 make longer wiring runs operate flawlessly.

- **Cut servicing time IN HALF!**

Advanced Load Cell Protocol allows you to simply ask each load cell for a response. Each load cell answers you sequentially. Pinpointing problems is fast, sure and comprehensive.

- **Everybody speaks only when spoken to!**

Each load cell comes pre-programmed with its own individual address (beginning with 01). Ask each load cell to respond either individually or sequentially -never at the same time!

- **Advanced Load Cell Protocol**

Each ALCP component has the ability to send and receive signals. Using an ALCP Digital Sensor Simulator, load cells are monitored and addresses can be changed.

**Safe Overload**  
150% of rated capacity

**Rated Output**  
400,000 counts

**Nonlinearity**  
±0.01% FSO

**Hysteresis**  
±0.02% FSO

**Non-Repeatability**  
±0.01% FSO

**Zero Balance**  
±5 ppm / °C maximum

**Required Power**  
12VDC, 125 max.

**Temperature Safe Range**  
-30° to + 175°F  
-35° to + 80°C

**Compensated Range**  
+15° to + 105°F  
-10° to + 40°C

**Temperature effect Zero**  
0.0005%/FSO °F

**Temperature Effect on Rated Output**  
±5 ppm / °C maximum

**Element Material/ Finish**  
Nickel Plated or Stainless Steel

**Cable Length & Type**  
20 foot, 4 conductor, twisted pair

**Communication**  
RS485, 19,200 baud, 8 bits, nor parity, 2 stop bits. Total of 10 per byte.  
**Cable Color Code**  
Red & Black . . . . .+ 12vdc  
White & Black . . . . .RS 485

#### 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.



# Totalcomp®

## Scales & Components

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