

INTERFACE TENSION LINK LOAD CELL CHEAT SHEET

COMMON ABBREVIATIONS

pound-force	lbf	Volt (Direct Current)	VDC
kilopound-force	K lbf	Millivolt per Volt	mV/V
Newton	N	Full Scale	FS
kilonewton	kN	Ohm	Ω
gram-force	gf	Megohm	M Ω
kilogram-force	kgf	Milliampere	mA
kilogram	kg	Rated Output	RO
hertz	Hz	Degree Fahrenheit	$^{\circ}$ F
kilohertz	kHz	Degree Celsius	$^{\circ}$ C

ACCURACY

Rated Load	The maximum load the load cell is designed to measure accurately during normal use
Proof Load	Used to verify the product's structural integrity and ensure it can withstand working loads without permanent deformation. It acts as a quality control test, proving a component meets specified strength
Non-repeatability	The variation in output when the same load is applied repeatedly under identical conditions, expressed as a percentage of rated output
Transmission Distance/Range	The maximum distance or range a signal can travel from the load cell to the receiver without loss or degradation

TEMPERATURE PERFORMANCE

Compensated Range	The range of ambient temperatures over which the load cell is guaranteed to maintain its specified accuracy
Operating Range	The full range of ambient temperatures over which the load cell can safely function without physical or electrical damage
Zero Temperature Coefficient	How much the zero output, the output signal when no load is applied, changes with temperature
Span Temperature Coefficient	Describes how the sensitivity or output signal changes as temperature varies, while under load

MECHANICAL

Safe Overload	Max load it can handle without damage
Ultimate Overload	The maximum load the pin can withstand before permanent structural failure (fracture or catastrophic yielding)
Environmental Rating	An IP (Ingress Protection) rating defines how effectively an electrical enclosure seals against solids (dust) and liquids (water), classified under international standard
Weight	How much the load cell itself weighs
Dimensions	Physical size details
Calibration	Verified output under known loads
Material	What the load cell is made of
Connection Type	The method used to connect the load cell to power or data systems (e.g., cable, connector, wireless)
Wiring Connections	The physical wires used for power, excitation, and signal output from the load cell

CALIBRATION

System Calibration	Verifies the performance of the load cell and entire system, ensuring accuracy and reliable performance
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SPECIAL OPTIONS

Special Ranges	Custom or non-standard load capacities designed for specific applications
Special Electrical	Custom electrical requirements or outputs, such as unique voltage levels or signal formats
Integral Signal Conditioning	Electronics built directly into the load cell that amplify, filter, or convert the signal before output
Wireless Overload Alarm Module	Available by configuring the tension link with a WTS-RM1 Wireless Receiver with Relay Output Module
Wireless Base Station with Analog Output	Option available when connected to the WTS-BS-6 Wireless Telemetry Dongle Base Station
Wireless Signal Booster	The wireless signal can be boosted when using the WTS-AR Wireless Repeater Module with the tension link
Wireless Display	Data from the tension link can be transmitted and displayed using the WTS-LD1 or WTS-LD2 Wireless Large LED Display
Crosby Shackle Supply	The basic shackle uses the renowned Crosby G2130, G2140 and G2150 series (depending on the load rating)
Submersible	Designed for underwater or marine environments, resistant to pressure, corrosion, and moisture
ATEX	Hazardous Location options available