

Ron 2501 Shackle Type Wireless Dynamometer

TECHNICAL SPECIFICATIONS



Transmission range: Up to 150 yards / meters (outdoor, line of sight).

Safety factor: 5:1.

Proof Load: Each system proof-loaded to 200% of capacity (certified) up to a test force of 400t.

Accuracy: $\pm 0.1\%$ of full range.

Display: 5/6 digits, $\frac{1}{2}$ " (12mm) liquid crystal display with two overload warning levels, max. value (peak hold), low battery (load cell and indicator), tare state (gross or net), measuring unit, programming instructions. Standard display update rate per second: 1 (optional 2/3).

Sampling Rate: 200 per second.

Functions: Zero. Tare. Battery charge level. Low battery warning one for the load cell and the other for the hand held indicator, displayed on the latter. Max. (peak hold). Two-level overload visual alarms. User calibration.

Units: User selectable units (metric tons, short tons (2000 lbs), kgs, lbs (lbs x 10 for capacities of 50t and above), newtons, deca newtons, k. newtons).

Load Cell Material: Made of high-strength, aerospace quality, alloy steel, polyurethane coated.

Indicator Material: High quality ABS.

Power: 3 x AA 1.5 Volt Alkaline disposable batteries in the indicator and 2 x AA batteries in the load cell (optional 4 x AA batteries) for extended battery life, with battery life indication. Batteries rated 3AH will function up to 2000 hours (three months of continuous working). Optional extended battery life of up to 4000 hours is available. Occasional use will extend the life of the batteries up to several years. Adding certain options will shorten the life of the batteries. All settings retained at power off.

Calibration: User calibration. Initial factory calibration, fully traceable (certified).

Temperature Range:

Load cell: -15°F to $+175^{\circ}\text{F}$ (-25°C to $+80^{\circ}\text{C}$).

Indicator: -4°F to $+158^{\circ}\text{F}$ (-20°C to $+70^{\circ}\text{C}$).

Environmental: Weather proof NEMA4, IP65.



Shackles not included

| Cat no. | Full range | | Resolution | | | Load Cell weight | | H1 (max.) | | H2 (max.) | | B (max.) | | L | | Ø D1 (max.) | | Ø D2 (min.) | | Matching anchor shackle size* |
|---------|------------|-----|------------|-----|-----|------------------|------|-----------|------|-----------|------|----------|------|-----|------|-------------|------|---------------------------------------|-------|-------------------------------|
| | tons | kgs | lbs | kgs | lbs | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch | | |
| S-005 | 0.5 | 0.2 | 0.5 | 0.3 | 0.7 | 125 | 4.9 | 92 | 3.7 | 16 | 0.7 | 100 | 4 | 31 | 1.3 | 17 | 0.66 | 1/2 | 7/16 | 3/8 |
| S-01 | 1 | 0.5 | 1 | 0.3 | 0.7 | 125 | 4.9 | 92 | 3.7 | 16 | 0.7 | 100 | 4 | 31 | 1.3 | 17 | 0.66 | 1/2 | 7/16 | 3/8 _{SW} |
| S-02 | 2 | 1 | 2 | 0.3 | 0.7 | 125 | 4.9 | 92 | 3.7 | 16 | 0.7 | 100 | 4 | 31 | 1.3 | 17 | 0.66 | 1/2 | 7/16 | 3/8 |
| S-03 | 3 | 1 | 2 | 0.3 | 0.7 | 137 | 5.4 | 100 | 4 | 19 | 0.75 | 100 | 4 | 38 | 1.5 | 21 | 0.82 | 5/8 | 1/2 | |
| S-05 | 5 | 2 | 5 | 0.5 | 1 | 147 | 5.8 | 105 | 4.2 | 26 | 1 | 100 | 4 | 43 | 1.7 | 23 | 0.9 | 3/4 | 5/8 | |
| S-10 | 10 | 5 | 10 | 1.4 | 3.1 | 195 | 7.7 | 131 | 5.2 | 41 | 1.6 | 100 | 4 | 61 | 2.4 | 36 | 1.4 | 1 1/4 | 1 1/8 | 1 |
| S-12 | 12.5 | 5 | 10 | 1.4 | 3.1 | 195 | 7.7 | 131 | 5.2 | 41 | 1.6 | 100 | 4 | 61 | 2.4 | 36 | 1.4 | 1 1/4 | 1 1/8 | 1 |
| S-15 | 15 | 5 | 10 | 2.5 | 5.5 | 220 | 8.7 | 141 | 5.6 | 45 | 1.7 | 100 | 4 | 74 | 3 | 40 | 1.5 | 1 3/8 | 1 1/4 | 1 1/8 |
| S-20 | 20 | 10 | 20 | 2.5 | 5.5 | 220 | 8.7 | 141 | 5.6 | 45 | 1.7 | 100 | 4 | 74 | 3 | 40 | 1.5 | 1 3/8 | | |
| S-25 | 25 | 10 | 20 | 3.7 | 8 | 240 | 9.4 | 150 | 5.9 | 58 | 2.3 | 100 | 4 | 87 | 3.4 | 44 | 1.7 | 1 1/2 | | |
| S-30 | 30 | 10 | 20 | 3.7 | 8 | 240 | 9.4 | 150 | 5.9 | 58 | 2.3 | 100 | 4 | 87 | 3.4 | 44 | 1.7 | 1 1/2 | | |
| S-40 | 40 | 20 | 50 | 8 | 17 | 320 | 12.6 | 195 | 7.7 | 71 | 2.8 | 100 | 4 | 115 | 4.5 | 60 | 2.3 | 2 | 1 3/4 | |
| S-50 | 50 | 20 | 50 | 8 | 17 | 320 | 12.6 | 195 | 7.7 | 71 | 2.8 | 100 | 4 | 115 | 4.5 | 60 | 2.3 | 2 | | |
| S-80 | 80 | 50 | 100 | 18 | 40 | 405 | 16.9 | 255 | 10 | 97 | 3.8 | 100 | 4 | 145 | 5.7 | 76 | 3 | 2 1/2 | | |
| S-100 | 100 | 50 | 100 | 28 | 60 | 450 | 17.7 | 275 | 10.8 | 121 | 4.8 | 155 | 6.2 | 165 | 6.5 | 81 | 3.18 | CROSBY No. 2160 125t | | |
| S-125 | 125 | 50 | 100 | 28 | 60 | 450 | 17.7 | 275 | 10.8 | 121 | 4.8 | 165 | 6.6 | 165 | 6.5 | 81 | 3.18 | CROSBY No. 2160 125t | | |
| S-200 | 200 | 100 | 200 | 57 | 121 | 575 | 22.6 | 350 | 13.8 | 145 | 5.7 | 165 | 6.6 | 210 | 8.3 | 106 | 4.2 | CROSBY No. 2160 200t | | |
| S-250 | 250 | 100 | 200 | 106 | 225 | 800 | 31.5 | 490 | 19.3 | 178 | 7.0 | 245 | 9.7 | 260 | 10.2 | 138 | 5.4 | CROSBY No. 2140 250t or No. 2160 300t | | |
| S-300 | 300 | 100 | 200 | 106 | 225 | 800 | 31.5 | 490 | 19.3 | 178 | 7.0 | 245 | 9.7 | 260 | 10.2 | 138 | 5.4 | CROSBY No. 2160 300t | | |

- > USE SHACKLES WITH S.W.L. (SAFE WORKING LOAD) EQUAL TO, OR GREATER THAN SYSTEM'S FULL RANGE.
- > The company reserves the right to make changes without notice.

OPTIONS (V)

- > Additional 0.5"/12mm LCD display with cable connection to indicator or wireless
- > Additional 1"/25mm LCD display with cable connection to indicator or wireless
- > Additional 2"/50mm LCD display with cable connection to indicator or wireless
- > Additional 5"/125mm LED display with cable connection to indicator or wireless
- > Battery life: Extended battery life of up to 4000 hours
- > Robust sealed carrying case: Pelican or equivalent
- > Dampened display for unstable loads
- > Data logger – manual or automatic – up to 600 measurements
- > Data logger – manual or automatic – up to 3,000 measurements
- > Data logger – manual or automatic – up to 6,000 measurements
- > Data logger – manual or automatic – up to 10,000 measurements
- > Indicator belt clip
- > IP 67 load cell with special off-shore capability
- > Multi-cell: Up to 8 different load cells controlled by a single indicator

- > Multiple point load monitoring: up to 200 load cells, please see Ron Stagemaster
- > Number of measurements per second: 1, 2, 3, factory set
- > Real-time clock: date, hour, minute, second adds time stamp to RS-232 output
- > Robust, extruded aluminum, hand-held indicator instead of ABS (1"/25mm or 2"/50mm digits)
- > Rechargeable batteries with an external charger.
- > RS-232 - continuous or on demand data output, user-selectable
- > RS-485 - continuous or on demand data output, user-selectable
- > Totalizer
- > Totalizer with Data Logging
- > Wireless communication to additional display or PC
- > USB

Options for hot industries:

- > Heat shield for the load cell
- > Internal load cell thermometer for load cell temperature display on the hand-held indicator