TYPE: WLL





Features

- Ranges: 5 to 100 tonne
- Stainless steel construction (17-4PH H900)
- Environmentally sealed to IP67
- Simple installation and operation
- Special sizes and ranges available
- Higher range versions available
- Machinery Directive 2006/42/EC compliant

Typical Applications

- Cable tension monitoring
- Under-hook hoist and crane weighing
- Towing/mooring tension
- Crane safe load monitoring
- Water bag weighing

OVAILABLE TO BUY ONLINE

Visit our website www.lcmsystems.com (In-stock items usually ship within 48 hours)

WLL Stainless Steel Wireless Load Link

Description

The WLL series of wireless load monitoring links have been designed for lifting and weighing in rugged or harsh environments, being manufactured from stainless steel for corrosion resistance. It complies with the European Machinery Directive 2006/42/EC and is supplied in a robust storage case.

The WLL wireless series are simple to install and are matched to standard shackle sizes. The unique wireless housing is manufactured from semi-aromatic polyamide plastic making the load link far more compact and reducing the overall product weight. Located in the housing are two AAA alkaline batteries which can be easily accessed by removing the telemetry housing cover, while the internal electronics underneath remain completely sealed. The antenna is also internally mounted, protecting it from accidental damage during use and handling. The batteries are standard AAA alkaline batteries, which are readily available and low cost.

The WLL is supplied as standard without any additional wireless devices to enable greater flexibility with the configuration and ordering of the product. The WLL can be used with any of the T24 range of wireless instrumentation, whether this be for a simple display system using the T24-HS-LS, or more complex systems using multiple load cells and multiple wireless devices.

For more sophisticated systems, including datalogging or monitoring/reporting requirements, we are able to offer a robust tablet PC with installed software for use with single or multiple load cell installations. Our sales team will be happy to discuss the best wireless system configuration to suit your requirements.

The WLL series can be provided as shown in this datasheet or can be modified to meet a particular application requirement. We are always pleased to discuss any special requirements that can be accommodated.

Specification

| Rated load (tonne) | 5, 12, 25, 35, 50, 100 | | |
|--------------------------------|---|--|--|
| Proof load | 200% of rated load | | |
| Ultimate breaking load | >500 % of rated load | | |
| Accuracy | <±0.1% of rated load | | |
| Non-repeatability | <±0.1% of rated load | | |
| Transmission distance | Up to 600 metres (clear line of sight) | | |
| Battery life | >300 hours (continuous use, with 1.2Ah batteries) | | |
| Battery (standard) | 2 x AAA Alkaline (supplied with 1.2Ah batteries) | | |
| (ATEX) | AAA L92 Lithium x 2 (supplied with 1.2Ah batteries) | | |
| Operating temperature range | -20 to +55°C (-20 to +50°C for Ex i versions) | | |
| Compensated temperature range | -10 to +50°C | | |
| Zero temperature coefficient | <±0.01% of rated load/°C | | |
| Span temperature coefficient | <±0.01% of rated load/°C | | |
| ATEX certification details | II 2G Ex ib IIC T4 Gb | | |
| Environmental protection level | IP67 | | |
| Approvals | European Machinery Directive 2006/42/EC | | |

Available Options

- Special ranges and sizes available
- Hazardous Area certified Intrinsically Safe (Ex i)
- Ruggedised Tablet PC, with bespoke software for datalogging, reporting etc.
- Various other wireless accessories available. See T24 range of wireless products
- T24-HA display, for multiple load cell system
- Can be supplied complete with shackles



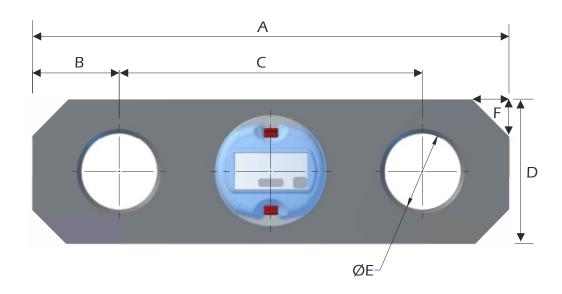


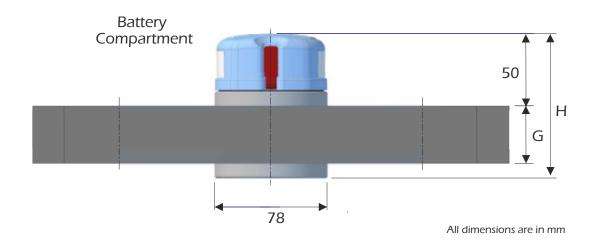




WLL Stainless Steel Wireless Load Link

Dimensions





| Rating (tonnes) | Part Number | Α | В | С | D | ØE | F | G | н | Weight (kg) | Resolution (tonnes) |
|--------------------|-------------|-----|------|-----|-----|----|----------|----|-----|----------------|------------------------|
| 5 | WLL-05 | 220 | 32.5 | 155 | 78 | 27 | 20 x 45° | 22 | 82 | 3 | 0.005 |
| 12 | WLL-12 | 260 | 40 | 180 | 85 | 37 | 20 x 45° | 32 | 92 | 5 | 0.01 |
| 25 | WLL-25 | 320 | 55 | 210 | 102 | 53 | 25 x 45° | 43 | 103 | 9.7 | 0.02 |
| 35 | WLL-35 | 350 | 57.5 | 235 | 122 | 52 | 30 x 45° | 42 | 102 | 13 | 0.05 |
| 50 | WLL-50 | 400 | 62.5 | 275 | 140 | 59 | 35 x 45° | 50 | 110 | 20 | 0.05 |
| 100 | WLL-100 | 460 | 91 | 278 | 200 | 84 | 50 x 45° | 68 | 120 | 43.5 | 0.1 |

Note 1: Part numbers for ATEX versions will be suffixed with -ATEX-I e.g. WLL-25-ATEX-I. Note 2: Dimensions may change for hazardous area versions.



WLL Stainless Steel Wireless Load Link

Storage Case

The WLL load link is supplied in a quality, lockable moulded polyurethane transit case that is highly durable and impervious to most chemicals and moisture. Its robust moulded construction also means that it will not dent or rust. The case also features pre-cut foam inserts that ensure the load link and a handheld display remain securely in place.

| Load Link Rating (tonnes) | Case Dimensions | With Wheels | Weight (kg) | |
|--|-------------------|-------------|-------------|--|
| 5, 12, 25, 35 460 x 350 x 180mm | | No | 3.1 | |
| 50 | 550 x 350 x 180mm | No | 5.6 | |
| 100 650 x 520 x 270mm | | Yes | 8.6 | |



Compatible Load Shackles

| Rating (tonnes) | Crosby Load Shackles | Van Beest Load Shackles | GN Rope Load Shackles |
|--------------------|----------------------|-------------------------|-------------------------|
| . 5 | 6.5te Crosby G-2130 | 6.5te Green Pin G4163 | 6.5te GN Rope H9 |
| 12 | 12te Crosby G-2130 | 12te Green Pin G4163 | 12te GN Rope H9 |
| 25 | 25te Crosby G-2130 | 25te Green Pin G4163 | 25te GN Rope H9 |
| 35 | 40te Crosby G-2140 | 40te Green Pin G5263 | 40te GN Rope H10 Super |
| 50 | 55te Crosby G-2140 | 55te Green Pin G5263 | 55te GN Rope H10 Super |
| 100 | 120te Crosby G-2140 | 120te Green Pin G5263 | 120te GN Rope H10 Super |

Easily accessible batteries



A summary of available wireless devices that can be used to enhance the WLL in your application can be viewed on the next page of this datasheet.

For further assistance on system configuration, please call us or email your requirements to sales@lcmsystems.com.



WLL Stainless Steel Wireless Load Link

Wireless Receivers/Display Options



T24-HS-LS
Simple wireless
display for connecting
to 1 load cell



T24-HAWireless display for connection to up to 12 load cells



T24-HRWireless display for connecting to multiple load cells



X24-HDATEX Wireless display for connection to up to 24 load cells

Wireless Base Station Options



T24-BSu Wireless USB connected base station



T24-BSdWireless compact USB connected dongle base station



T24-BSueWireless USB
extended range base
station



T24-BSiWireless USB, RS485,
RS232 connected
base station

Wireless Output Module Options



T24-RM1Wireless relay, switch output module



T24-SOWireless serial
ASCII output
module



T24-AO1Wireless
analogue output
module



T24-PR1
Wireless surface
mounting tally
roll printer



T24-AR
Wireless range
extender
repeater module

Wireless Software Options



LCM Systems are able to offer various software solutions for our wireless range of load cells. We encourage you to speak to our sales team to discuss any standalone software requirements you may have.

The solutions we regularly offer include centre of gravity weighing and reporting, multiple load cell display & reporting and PC based datalogging. Other solutions can also be offered.

For more detailed information regarding wireless instrumentation visit www.lcmsystems.com/T24



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Due to continual product development, LCM Systems Ltd reserve the right to alter product specifications without prior notice

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