

## TYPE: WLL

# 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 also comes supplied complete with a 3.1b material certificate as standard, 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 wireless WLL is also supplied as standard with a handheld battery powered display (T24-HS-LS) which can display in both tonnes or lbs, or alternatively, for multi-link applications, a single display (T24-HA) can address up to 12 links for individual monitoring, or for summation/balancing applications. The built in wireless electronics operates on the 2.4GHz license free frequency, with a robust proprietary protocol, providing interference free communications.

For more complex 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.

The WLL wireless series can be supplied as shown in this data sheet, 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	<±0.15% 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	AAA Alkaline x 2 (supplied with 1.2Ah batteries)
Operating temperature range	-20 to +55°C
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
Environmental protection level	IP67
Approvals	European Machinery Directive 2006/42/EC

## Available Options

- Special ranges and sizes available
- Can be supplied complete with shackles
- T24-HA display, for multiple load cell system
- Ruggedised Tablet PC, with bespoke software for datalogging, reporting etc.

## 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
- Lifting gear testing

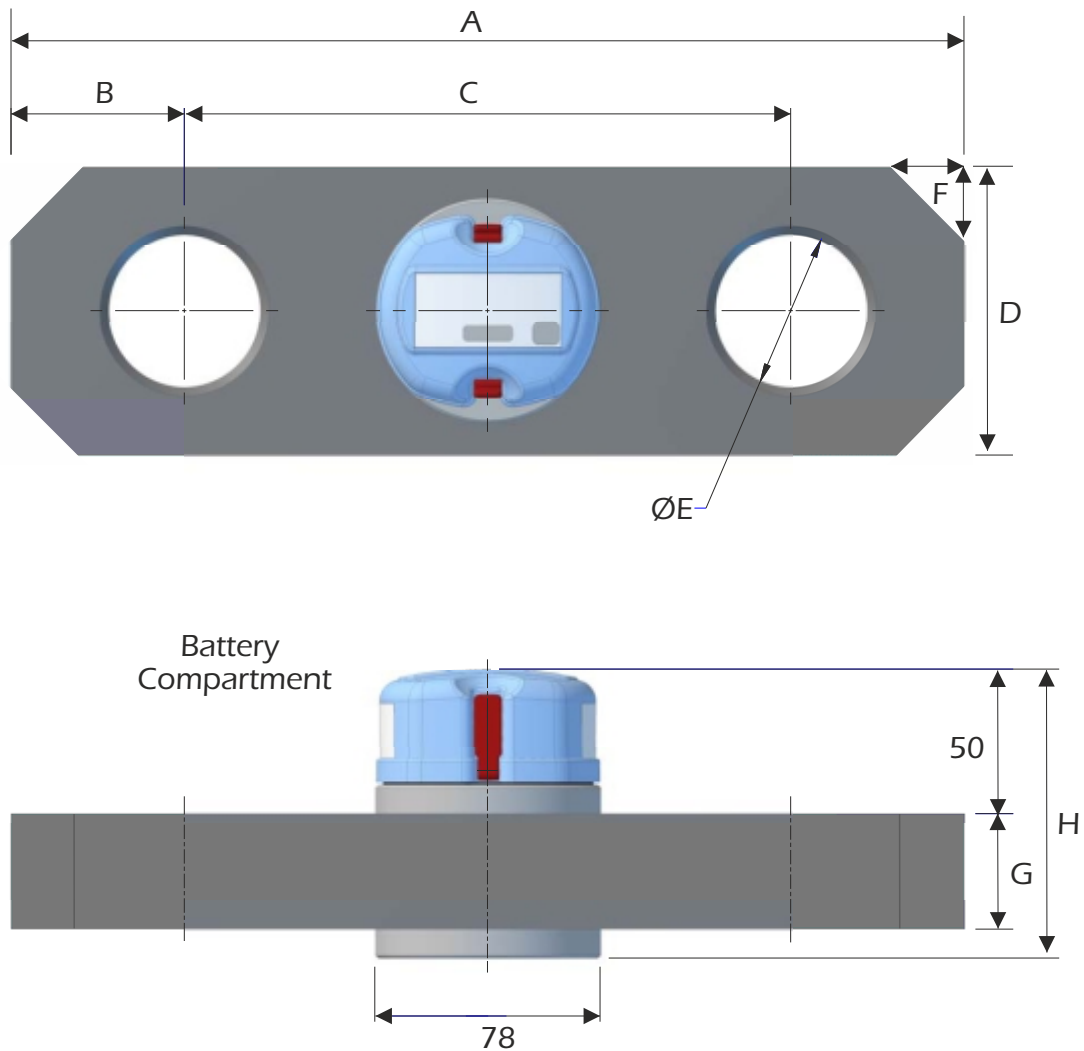
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## Dimensions

All dimensions are in mm



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

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## 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 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	Yes	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	/
50	55te Crosby G-2140	55te Green Pin G5263	/
100	120te Crosby G-2140	120te Green Pin G5263	/

## Easily accessible batteries



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

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APPROVED

(unapproved if printed)