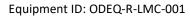
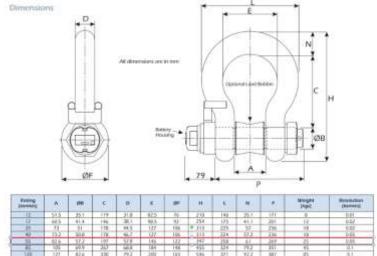
DATASHEET 55T LOAD SHACKLE







SPECIFICATIONS							
MAKE	LCM SYSTEM	SUPPLIER: SCIENCE GATE					
OEM TYPE	TELSHACK-B						
SHACKLE TYPE	CROSBY BOW SHACKLE	WIRELESS					
PART NO	TELSHACK-B-55T-T24	2 PCS					
HANDHELD TELEMETRY DETAIL	T24-HS-LS						
SHACKLE CAPACITY	55MT SWL						
PROTECTION	IP67						
YEAR OF MANUFACTURE	2023						

ODEQ-R-LMC-SPC-001 55T LOAD SHACKLE SPECIFICATION

Bow Load Shackle

94 Club Street Singapore 069462 equipment.orangedelta.sg

TYPE: TELSHACK-B





Description

The TELSHACK-B range of telemetry load shackles are manufactured using the Crosby™ G2130 (12 to 25 tonne) and G2140 (40 to 120 tonne) shackles. Suitable for use in a wide range of industrial and marine weighing applications, these load shackles are robust, reliable and easy to install.

TELSHACK-B Wireless Crosby™

The unique telemetry housing is manufactured from tough high performance polyamide resin making it strong yet light, resulting in a better balanced load shackle when compared to others available on the market. Two clips enable you to open the housing to access and change the two AAA alkaline batteries, while the internal electronics underneath remain completely sealed. This includes the antenna to ensure maximum protection from damage. The built in radio telemetry electronics operates on the 2.4GHz license free frequency.

The TELSHACK-B is supplied as standard without any additional wireless devices to enable greater flexibility with the configuration and ordering of the product. The TELSHACK-B 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 TELSHACK-B 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.

Features

- Ranges from 12 to 120 tonnes
- Forged high tensile carbon steel construction
- Environmentally sealed to IP67
- Simple installation and operation
- Shackle and load pin fully certified
- Optional load centralising bobbin
- Many other options available

Specification Rated load (tonnes)

Rated load (tonnes)	12, 17, 25, 40, 55, 85, 120,			
Proof load	150% of rated load			
Ultimate breaking load	300% of rated load			
Non-linearity	<# 1% of rated load (typically)			
Non-repeatablity	<±0.1% of rated load			
Transmission distance	Up to 600 metres (clear line of sight)			
Battery life	>300 hours typically (continuous use with 1.2Ah batter			
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)			
ATEX certification details	II 2G Ex Ib IIC T4 Gb			
Environmental protection level	IP67			
Telemetry housing	Polyamide resin			

Typical Applications

- Under-hook hoist/crane weighing
- Cable tension monitoring
- Towing/mooring Tension
- O Crane safe load monitoring
- Beam proof loading

Available Options

- Special ranges and capacities up to 2000te
- O Hazardous Area certified Intrinsically Safe (Ex i)
- O Centralising load bobbin
- O Special telemetry systems available
- O Lloyds, ABS, DNV or other third party witnessing
- O Various wireless accessories available. See T24 range of wireless products







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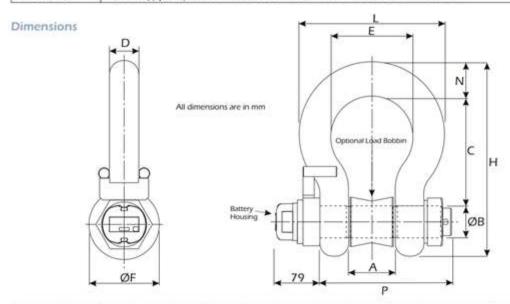




TELSHACK-B Wireless Crosby™ Bow Load Shackle

Special Options

Special ranges	The TELSHACK-B can be supplied in any range, between 12te and 120te and calibrated as required. Usually we will choose the nearest standard shackle size. We can also offer special design shackles up to 2000te. Please contact our sales team for more details.
Centralising bobbin	We can offer an optional centralising bobbin. This helps improve the overall load cell accuracy in certain cable tension applications. The bobbin is shown pictorially in the drawing below.
Multi-shackle systems	It is possible with the T24-HA handheld telemetry display to use up to 12 shackles with a single handheld. Each shackle is paired with the handheld and can be used to view individual load cells or summated load cells. These values can be sent to a printer or a PC.
Hazardous Area	We can supply ATEX/IECEx certified load shackles for use in Zone 1 and Zone two hazardous areas.



Rating (tonnes)	A	ØB	c	D	E	ØF	н	L	N	Р	Weight (kgs)	Resolution (tonnes)
12	51.5	35.1	119	31.8	82.5	76	210	146	35.1	17.1	8	0.01
17	60.5	41.4	146	38.1	98.5	92	254	175	41.1	201	12	0.02
25	73	51	178	44.5	127	106	313	225	57	236	18	0.02
40	73.2	50.8	178	46.7	127	106	313	224	57.2	236	18	0.05
55	82.6	57.2	197	52.8	146	122	347	258	61	269	25	0.05
85	105	69.9	267	68.8	184	148-	455	324	79.2	351	45	0.1
120	127	82.6	330	79.2	200	165	546	371	92.2	387	85	0.1

Note 1: Part numbers for ATEX versions will be suffixed with ATEX4 e.g. TELSHACK-B-17T-T24-ATEX4. Note 2: Dimensions may change for hazardous area versions.

A summary of available wireless devices that can be used to enhance the AWLL 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.

TYPE: TELSHACK-B

TELSHACK-B Wireless Crosby™ Bow Load Shackle

Wireless Receivers/Display Options



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



T24-HA
Wireless display for connection to up to 12 load cells



T24-HR Wireless display for connecting to multiple load cells



X24-HD AYEX Wireless display for connection to up to 24 load cells

Wireless Base Station Options



T24-BSu Wireless USB connected base



Wireless compact USB connected dongle base station



T24-BSue Wireless USB extended range base station



T24-BSi Wireless USB, RS485, RS232 connected base station

Wireless Output Module Options



T24-RM1 Wireless relay, switch output module



T24-SO Wireless serial ASCII output module



T24-AO1 Wireless analogue output module



T24-PR1 Wireless surface mounting tally roll printer



TZ4-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



LCM Systems Lb Unit 15, Newport Busness Park, Barry Wa Newport, Isle of Wight PO305GV U Tel: +44 (0)1983 24926 sales@lcmystems.cor www.knsystems.cor

> LCM Systems (România) Strada Stefan Cel Mare 26a, Tunan, cod 077180, Ilfon, România Tet +40 (0)77 464 1899 roâlemsystems.com

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ODEQ-R-LMC-SPC-001 55T LOAD SHACKLE SPECIFICATION

TYPE: T24-HS-LS



Features

- O Battery powered and compact
- Simple operation
- Will connect to a single acquisition unit/load cell for wireless communications
- Worldwide licence exempt 2.4GHz
 radio
- Up to 800 metre (2600 feet) range maximum
- Environmentally sealed to IP67
- Can power off a remote acquisition unit to preserve system battery life

Typical Applications

- Wireless load shackles
- Wireless load links
- Heist load monitoring
- Cable tension measurement
- Mast stay load monitoring

T24-HS-LS Telemetry Handheld Simple Display

Description

The T24-HS-LS handheld battery powered wireless display is used as the display in several of our wireless load cell products, including the TELSHACK-B wireless load shackle and RILL wireless load link.

The T24-HS-LS is a display that is very simple to operate, with just three buttons; one to power the product on/off, the second to allow viewing of the gross/net weight and the third to enable the user to chose between viewing the load in tonnes and lbs (other units available on request). It is used to connect to a single acquisition unit (T24-SA). For multiple unit applications, please refer to the T24-HA datasheet.

The licence-free Z.4GHz radio signal provides a line-of-sight communication range of up to 800 metres [2600 feet], extendable by the use of a repeater [T24-AR]. The use of the latest DSSS radio technology minimises local radio interference and ensures data integrity and security,

and the wide operating temperature range and the robust technology ensures that the T24-H5-LS it is not susceptible to harsh physical or electrical environments.

LCM Systems can supply the T-24 products integrated into various sensors to form a wireless sensor system. There are several standard products which utilise the T24 range, including the TELSHACK range and RILL ranges. Please contact LCM's technical department

Specification

Licence	Licence exempt				
Radio type	Transceiver (2 way)				
Radio frequency	2.4 GHz				
Power	10mW				
Range	Up to 800 metres [2600 feet]*				
Channels	16				
Power supply voltage	2.5 to 3.6vdc (3vdc typical)				
Power supply active	35mA (40mA max)				
Low power mode	120uA (160uA max)				
Estimated battery life: standby mode (power off) continuous operation	1.5 years 40 hours				
IP rating	IP67 / NEMA 4				
Operating temperature range	-10 to +50°C				
Storage temperature range	-40 to +85°C				
Humidity	0 - 95%RH				

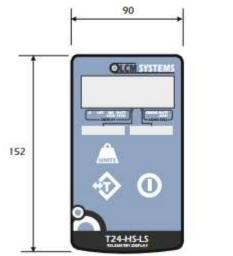
Muslimum range achieved in open field site with T24-SA at a height of 3 metres above ground and T24-HR held at chest height pointing towards the T24-SA.





T24-HS-LS Telemetry Handheld Simple Display

Dimensions



All dimensions are in mm

Module transmits and receives using: 1. Full error detection and correction 2. Remote and local battery check

Note: Use a pair of alkaline AA batteries. Due to the higher voltage requirements of this device, NiMh or NiCad batteries are not recommended.

TYPE: T24-HS-LS



LCM Systems. Ltd It 15. Newport Business Park, Barry Way Newport, bie of Wight PO30 SGY. UK Teb: +44 (0) 1983 249264 sales@kmaystems.com www.kmaystems.com

LCM Systems (România) Siracia Ștefan Cel Mare 26a, cod.077190, Ilfov, România Tet +40 (0)77 464 (899 1988) consystems com

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