

TYPE: T24-HS-LS



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 choose 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 2.4GHz radio signal provides a line-of-sight communication range of 600 metres (1970 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-HS-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 to discuss your wireless load cell requirements.

Specification

Licence	Licence exempt
Radio type	Transceiver (2 way)
Radio frequency	2.4 GHz
Power	10mW
Range	600 metres (1970 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)	1.5 years
continuous operation	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

* Maximum 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

Features

- Battery powered and compact
- Simple operation
- Will connect to a single acquisition unit/load cell for wireless communications
- Worldwide licence exempt 2.4GHz radio
- 600 metre (1970 feet) range maximum
- Environmentally sealed to IP67
- Can power off a remote acquisition unit to preserve system battery life

Typical Applications

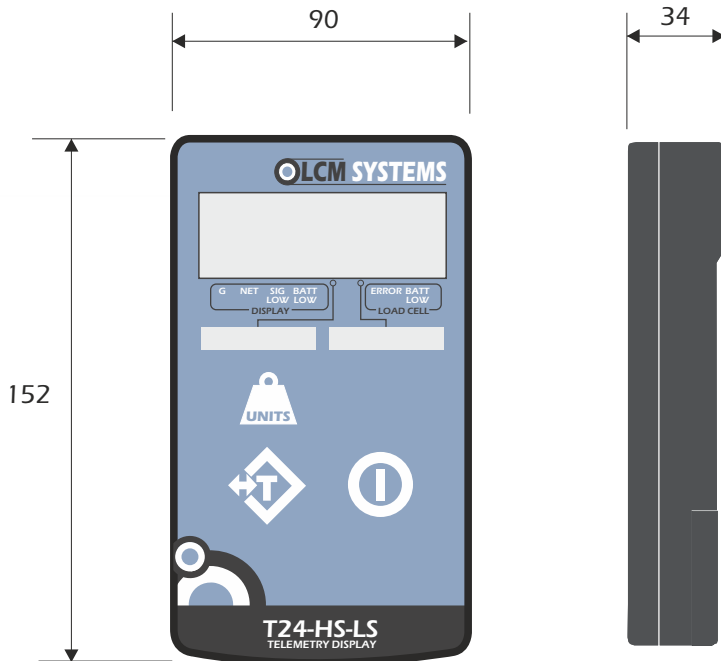
- Wireless load shackles
- Wireless load links
- Hoist load monitoring
- Cable tension measurement
- Mast stay load monitoring

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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.



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

Complies with EMC directive. 2004/108/EC
 The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC. Family: RAD24
 Industry Canada Industrie Canada IC:7224A-RAD24