



## TYPE: T24-HR



# T24-HR Telemetry Handheld Roaming Display

## Description

The T24-HR is a portable battery-powered roaming handheld which allows the viewing of an unlimited number of acquisition modules. By simply 'roaming' past the acquisition modules, the handheld will wake each device and display the data tag of the remote acquisition module on the LCD display. With user-friendly T24 toolkit software, the data tags can be set to allow identification of each acquisition device allowing the viewing experience to be tailored to each particular application.

The T24-HR is a display that is very simple to operate, with just two buttons; one to power the product on/off, the second to allow viewing of any detected devices that have been detected. The transmitter module with the highest signal strength and nearest to the handheld will initially be selected and displayed. The data tag of the transmitter module being read is displayed prior to the output reading, allowing identification of the data's origin. Other transmitter modules can be displayed by scrolling.

The licence-free 2.4GHz radio signal provides a line-of-sight communication range of 800 metres (2,600 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.

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

LCM Systems can supply the T24 products integrated into various sensors, to form a wireless sensor system. There are several standard products which utilise the T24 range, including the TELSHACK, WLL and RILL ranges.

## Specification

Internal batteries (2 x 1.5V AA cells)	2.5 to 3.6vdc
Battery life (based on 2 Ah capacity batteries)	35 hours continuous operation
Standby mode (powered off)	1.5 years
Radio type	Licence exempt transceiver
Radio frequency	2.4GHz
Transmit power	10mW
Range	Up to 800m (2,600ft)
Operating temperature range	-20 to +50 °C
Storage temperature	-40 to +85 °C
Maximum humidity	95% non condensing
IP rating	IP67/Nema4

\* 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

## Available Options

- Leather effect carry case



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## Features

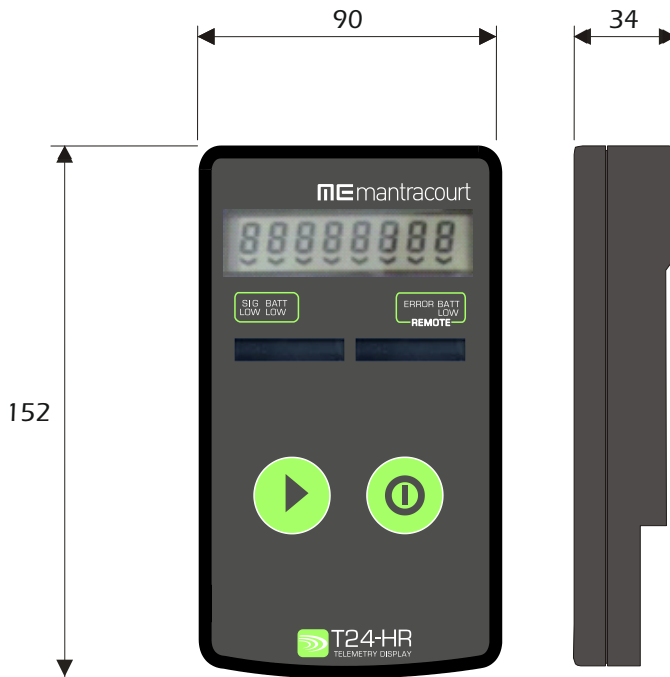
- Battery powered and compact
- Wakes and reads unlimited numbers of acquisition modules, displaying one at a time
- Displays ID of 'live' sensor
- 800 metre (2,600 feet) range
- Simple configuration via PC using base station with telemetry toolkit software
- Environmentally sealed to IP67
- Remote battery check

## Typical Applications

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

# T24-HR Telemetry Handheld Roaming 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.



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

CE Complies with EMC directive. 2004/108/EC

FC The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC. Family: RAD24

 Industry Canada Industrie Canada IC:7224A-RAD24

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