

T24-HA Wireless Telemetry Handheld Advanced Display

Features

- Capable of displaying up to 12 data inputs
- 2 way radio system for data integrity
- Very low power consumption for long battery life
- Worldwide licence exempt 2.4 GHz radio
- 120 metre (400 feet) range maximum
- Simple configuration and calibrated via PC using base station with Telemetry Toolkit software
- Programmable wireless print capability
- 6 button tactile keypad
- Environmentally sealed to IP65

Typical Applications

- Wireless shackle load cells
- Wireless link load cells
- Platform Weighing
- Vehicle Weighing
- Rotating machine force measurement
- Balancing Systems
- Simple Centre of Gravity

Description

The T24-HA is an advanced handheld display which forms part of the popular T24 sensor acquisition system range. It allows wireless remote viewing of multiple inputs such as strain, voltage or current using 2.4GHz radio. The device provides sleep and wake functionality for all wireless modules thus extending battery life and reducing maintenance costs. The wide operating temperature range and the robust technology ensures that the T24-HA it is not susceptible to harsh physical or electrical environments.

The module can operate in two modes:

Result Mode:

This default mode creates a single resultant by summing the values from up to 12 acquisition modules simultaneously as well as allowing users to view the discrete values that make up the result.

Item Mode:

In this mode each acquisition module is treated as a separate entity and the T24-HA is used to cycle through each one.

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 TELSACK range and RILL ranges.

Please contact LCM's technical department to discuss your wireless load cell requirements.



Specification

General Radio

Parameter	Min	Typical	Max	Units
Licence	Licence Exempt			
Modulation method	MS (QPSK)			
Radio type	Transceiver (2 way)			
Data rate		250		K bits/sec
Radio Frequency	2.4000		2.4835	GHz
Power		1		mw
Range RAD24i (Integrated antenna)			120 (400)	Metres (feet) *
Range RAD24e (External antenna)			200 (650)	Metres (feet) *
Channels (DSSS)		16		

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

Approvals



Complies with EMC directive. 2004/108/EC

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



Family: RAD24



Industry Industrie
Canada Canada

IC:7224A-RAD24

Electrical	Min	Typical	Max	Units
Power Supply voltage	2.4	3.0	3.6	V dc

Power Supply	Min	Typical	Max	Units
Active		35	40	mA
Low power mode		120	160	uA

Estimated Battery life (using 2Ahr batteries):				
Standby mode (Powered off)		1.5		Years
Continuous operation		40		Hours

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

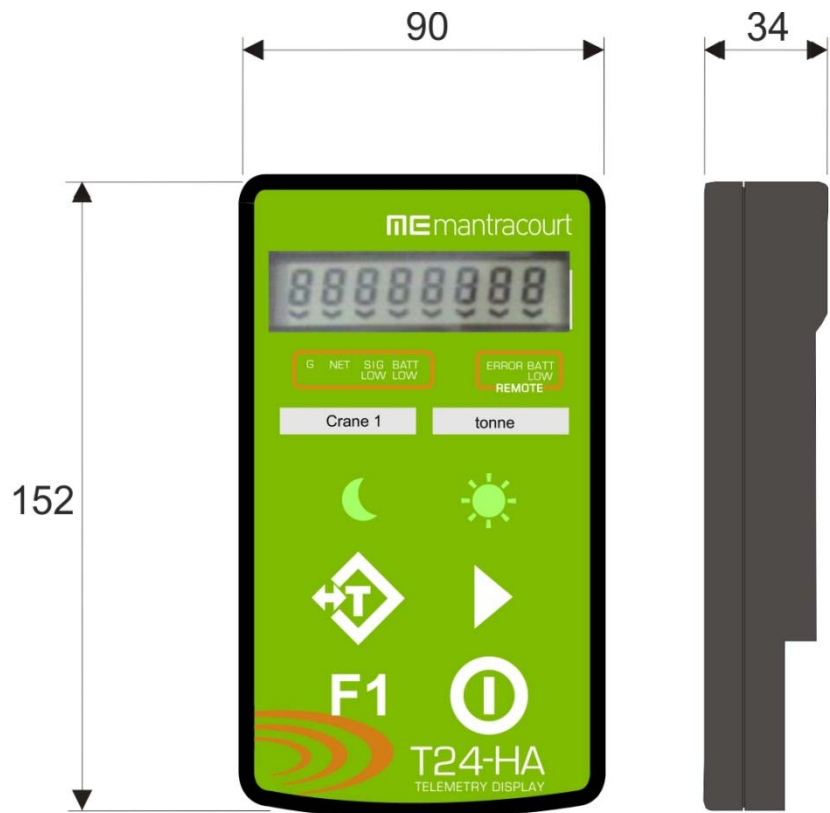
Environmental	Min	Typical	Max	Units
IP rating		IP65		
Operating temperature range	-10		+50	°C
Storage temperature	-40		+85	°C
Humidity	0		95	%RH

Module Transmits & Receives using:

1. Ability to switch to low power modes
2. Ability to be switched from sleep to operating mode via radio
3. Calibration & configuration via radio telemetry
4. Ability to be switched from sleep to operating mode via radio
5. Calibration stored within the module
6. Remote battery check

Mechanical Dimensions

All dimensions in millimeters



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

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