

Wireless Telemetry Multiple Channel Handheld Display

Features



- Portable Handheld Indicator for displaying data from up to 12 sensors
- 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



Introduction

The T24-HA is an advanced handheld with the ability to display data from up to 12 sensors/acquisition modules. The handheld will display data from any of Mantracourt's acquisition modules (strain, voltage or current).

The handheld has an auto 'off' function which can 'power off' acquisition modules to extend battery life and reduce maintenance costs. The handheld will also power itself 'off' and acquisition modules if no buttons are pressed in a specified period of time.

The wide temperature operating range and the robust technology ensures that the module 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 result 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 all available items.

Specifications

General Radio

	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

T24-HA - Handheld Reader

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 giving:

1. Full error detection and correction
2. Ability to switch to low power modes
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

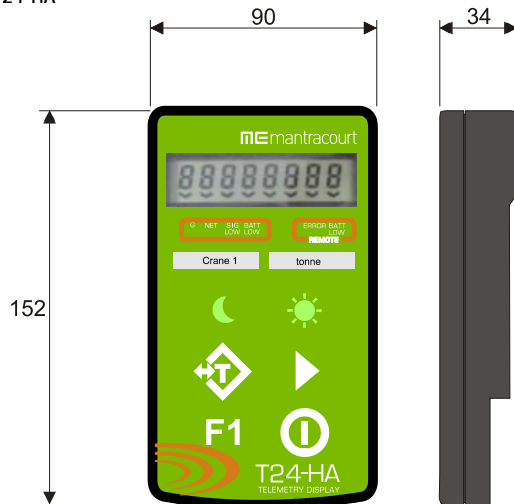
Product Order Codes

T24-ACM	Wireless Radio Telemetry Acquisition Enclosure	T24-HR	Wireless Radio Telemetry Handheld Display Unlimited Inputs
T24-ACMi	Wireless Radio Telemetry Acquisition Enclosure	T24-HS	Wireless Radio Telemetry Handheld Display Single Inputs
T24-ANTA	Wireless Radio Telemetry Antenna	T24-IA	Wireless Radio Telemetry Current (4-20mA) Acquisition Module
T24-ANTB	Wireless Radio Telemetry Antenna		Wireless Radio Telemetry Printer
T24-ANTC	Wireless Radio Telemetry Antenna	T24-PR1	Wireless Radio Telemetry Data to Relay output
T24-AO1	Wireless Radio Telemetry Desktop Analogue Output Module	T24-RM1	Wireless Radio Telemetry Strain Gauge /Load Cell Acquisition Module
T24-AO1i	Wireless Radio Telemetry Industrial Analogue Output Module	T24-SA	Wireless Radio Telemetry 2KHz Strain Gauge Acquisition Module
T24-BC1	Battery Charger for T24 Acquisition Modules	T24-SAF	Wireless Radio Telemetry Printer and Display Driver
T24-BSi	Wireless Radio Telemetry Industrial Base Station	T24-SO	Wireless Radio Telemetry Toolkit Software
T24-BSu	Wireless Radio Telemetry Base Station USB	T24-TK	Wireless Radio Telemetry Voltage (0-10V) Acquisition Module
T24-DPV	Wireless Radio Telemetry T24 Data Provider Viewer and Logger	T24-VA	
T24-HA	Wireless Radio Telemetry Handheld Display Multiple Inputs		

For more up to date information visit our website
www.mantracourt.co.uk/products/wireless-telemetry

Mechanical Dimensions

T24-HA



CE, Complies with EMC directive. 2004/108/EC
 The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC.



Industry
Canada

Industrie
Canada



Designed, Manufactured
& Supported in the UK

In the interests of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice.