



APPLIED MEASUREMENTS LTD.
Transducer Specialists...

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T24-HR 2.4GHz Roaming Handheld Telemetry Display

Key Features:

- Displays Data from an Unlimited Number of Acquisition Modules
- Works with all T24 Telemetry Products
- Powered by 2x 'AA' Alkaline Batteries
- Simple Configuration and Calibrated via PC using Base Station with Telemetry Toolkit Software
- Up to 40 Hours Continuous Operation
- IP67 Rated
- Easy to Use
- 8-Digit LCD Display
- Worldwide Licence Exempt 2.4 GHz Radio
- 800 Metres Range Maximum



The [T24-HR is a portable battery-powered roaming handheld](#) which allows the viewing of an unlimited number of acquisition modules. The handheld display is very easy to use by pressing the 'play' button it will 'roam' past the acquisitions modules, wake each device and display the data tag of the remote acquisition module on the LCD display. For sites with many modules, by using the 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 configured using either a [T24-BSu](#) or [T24-BSi](#) base station and can be set to power-on and power-off the remote acquisition module. It is powered by 2x 'AA' batteries and has a range of up to 800 metres.

For applications where a single acquisition module is being used, please see the [T24-HS Simple Handheld Telemetry Display](#).

Industries:

- Civil Engineering
- Lifting & Handling
- Waste Management
- Alternative Energy
- Construction
- Automotive
- Silo & Weighing Industry
- Marine

Applications:

- Wireless Monitoring of Bridge Structures
- Wireless Monitoring of Anchor Loads
- Wireless Bridge Surveying via GPRS
- Wireless Truck Load Weight Monitoring
- Wireless Skip Weighing System
- Wireless Platform Weighing with Ticket Printing
- Wireless Monitoring of Building Foundations
- Wireless Telemetry Strain Measurement of Wind Turbines
- Remote Load Monitoring of Construction Shoring Struts
- Force Measurement in Formula Racing
- Wireless Silo Weighing
- Superyacht Sail-Track Development
- Telemetry Monitoring on High Altitude Roads
- Radio Telemetry Monitoring of Underwater Turbine
- Wireless Mooring Rope Monitoring
- Wireless Valve Control
- Torque Measurement Using Wireless Technology
- Measuring the Power Output of a Motor



Specification:

Radio	Min	Typical	Max	Units
Licence		Licence Exempt		
Modulation Method		MS (QPSK)		
Radio Type		Transceiver (2 way)		
Data Rate		250		K bits / second
Radio Frequency	2.4000		2.4835	GHz
Power		10		mw
Range*			800	Metres
Channels (DSSS)		15		

*Tests conducted in an open field site with the transmitter at the top of a 3m pole. The receiver was mounted 1.5m off the ground.

T24-HR Handheld Display	Min	Typical	Max	Units
Electrical				
Power Supply Voltage 2 off AA 1.5V primary cells	2.5	3.0	3.6	Vdc
Power Supply				
Active		35	40	mA
Low Power Mode		120	160	µA
Estimated Battery Life using 2Ahr batteries:				
Standby Mode (powered off)		1.5		Years
Continuous Operation		40		Hours
Environmental				
Operating Temperature Range	-10	-	+50	°C
Storage Temperature Range	-40	-	+85	°C
Humidity	0		95	%RH
IP Rating		IP67		
European EMC Directive	2004/108/EC			
Low voltage directive	2006/95/EC			
Approvals				
Complies EMC Directive	2004/108/EC			
	The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC.			



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Dimensions (mm):



Ordering Codes:

T24-HR	Wireless Radio Telemetry Handheld Display Unlimited Inputs
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Associated Products:



[T24-ACM Wireless Sensor Module Enclosure with External Power](#)



[T24-ACMi Mini Sensor Enclosure](#)



[T24-ACMm Mini data transmitter case for strain, 0-20 mA, 0-10 V](#)



[T24-BSi Radio telemetry base station with USB, RS485 or RS232](#)



[T24-BSu Wireless radio telemetry USB base station](#)