

T24-SYS Loadcell Telemetry System

- ✓ Licence free 2.4GHz band
- ✓ Traceable system calibration certificate
- ✓ Very high resolution data acquisition
- ✓ 2 way wireless system for data integrity
- ✓ Toolkit software available
- ✓ 1 year warranty



Specification

Parameter	Value	Unit
Licence	Licence exempt	
Modulation method	MS (QPSK)	
Radio type	Transceiver (2 way)	
Data rate	250	kbits/sec
Radio frequency	2.4000 (Min) / 2.4835 (Max)	GHz
Power	10	mW
Line of sight transmission distance	400	m
Channels (DSSS)	16 (Max)	
Operating temperature range	-20 (Min) / 55 (Max)	°C
Storage temperature	-40 (Min) / 85 (Max)	°C
Humidity	0 (Min) / 95 (Max)	%RH Non condensing
Sealing - handheld display and acquisition unit	IP67	
Sealing " base unit	IP50	

The T24 telemetry range is a flexible radio telemetry system designed to provide high accuracy measurement

data from strain gauge loadcells.

The basic system displays the data on a computer via an interface unit that is powered from a USB port. Other systems are available that allow the data to be read on a compact handheld display unit. T24 toolkit software is available for set-up and data access using a computer with a Windows operating system, Windows XP, Vista, 7, 8 or 10 is required. The software can output data as a standard csv file for use with a spreadsheet or other data processing software. The licence free 2.4GHz direct sequence spread spectrum (DSSS) radio technology offers high integrity, error free communications which can co-exist with other wireless technologies such as Wi-Fi, Bluetooth® and Zigbee®. If you have concerns about a wireless system functioning reliably at your location we have a set of evaluation modules available for test purposes. If the system is supplied with a loadcell it will normally be calibrated to read the loadcell output in the same force units as the loadcell calibration. A traceable system certificate will be supplied for this calibration. Alternative calibrations are possible; please consult our engineering department to discuss your requirements.

Notes

- The handheld displays are limited to -10 to 50°C
- RH = relative humidity.
- Line of site transmission distance assumes ideal conditions with the data acquisition unit 3m above the ground.
- The batteries used may reduce the operating temperature range. Storage temperature is without batteries.

Please see the individual product data-sheets for more information.

[T24-ACM/SA](#) - Loadcell telemetry acquisition unit. Cased battery or externally powered loadcell data acquisition unit that connects to a loadcell.

[T24-ACMi/SA](#) - Miniature loadcell telemetry acquisition unit. This is a cased battery powered wireless unit that connects to a loadcell.

[T24-BSu](#) - Telemetry Base Station. This is a USB device that is used with a computer. Needed for configuration and can be used to display force data on a computer.

[T24-HS](#) - Handheld battery powered single channel display unit.

[T24-HA](#) - Handheld battery powered 12 channel display unit.

T24 Toolkit program and the user manual are available for download. The T24 system can be calibrated in a number of different ways depending upon the application. Please consult our engineering department for help with your requirements.

Please see Engineering Sheet E035 for Frequently Asked Questions for the T24 Telemetry system.

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

Files

Type	Title	Download
PDF Instructions	Printable manual for the T24 system.	Download

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