

T24-SYSC Set-up Wheel Loadcell Telemetry System

- ✓ Licence free 2.4GHz band
- ✓ Very high resolution data acquisition
- ✓ Replaces TR150/200 in existing systems
- ✓ 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 (Typical)	kbits/sec
Radio frequency	2.4000 (Min) / 2.4835 (Max)	GHz
Power	10 (Typical)	mW
Line of sight transmission distance	400 (Typical)	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 - 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.

System C displays the data from pairs of set-up wheel loadcells on a computer via an interface unit that is powered from a USB port. Loadcell connections are via a standard Binder 723 series cable mounted socket. The pin connections are the same as the TR150 and TR200 loadmeters allowing direct replacement of the loadmeters in existing systems. System T24-SYSC is normally scaled to 500kgf for 2mV/V for use with F256 set-up wheel installations. Other scalings are possible. Please see overleaf for Ordering Code. T24 toolkit and multi channel logging 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. CE - This instrumentation product complies with the requirements of the European EMC directive.

Order Codes

Code	Description
T24-SYSC	System with four miniature loadcell acquisition units and a base unit for computer interface. Calibrated to 500kgf for 2mV/V.
	T24 manual is 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.

Notes

- RH = relative humidity.
- Line of sight 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-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-ACMi/SA](#) - Miniature loadcell telemetry acquisition unit. This is a compact cased battery powered wireless unit that connects to a loadcell.

Files

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

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