



# 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 and logging software available
- ◆ 1 year warranty



The T24 telemetry range is a flexible radio telemetry system designed to provide high accuracy measurement data from strain gauge loadcells. The 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 500kg for 2mV/V for use with F256 set-up wheel installations. Other scalings are possible. Please see overleaf for the order 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.

Other T24 systems can be used with any of our loadcells. Details of our loadcell families can be found in the Product List and the Loadcell Specifier Guide. If you require copies please contact our sales department or look on our web site at [www.novatechloadcells.co.uk](http://www.novatechloadcells.co.uk).

## T24-SYSC Specification

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

Notes:

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.

RH = relative humidity.

The batteries used may reduce the operating temperature range. Storage temperature is without batteries.

### Order code

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

T24 Toolkit software and system manual are available for download. 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.



Novatech reserves the right to vary the foregoing details without prior notice

12/2016

### NOVATECH MEASUREMENTS LTD

\*\*\* Manufacturing loadcells since 1972 \*\*\*

83 CASTLEHAM ROAD, ST LEONARDS ON SEA, EAST SUSSEX, TN38 9NT, ENGLAND

Tel: 01424 852744

email: [info@novatechloadcells.co.uk](mailto:info@novatechloadcells.co.uk)

Fax: 01424 853002

[www.novatechloadcells.co.uk](http://www.novatechloadcells.co.uk)