

## 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. | <a href="#">Download</a> |

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