

Wireless Telemetry USB Base Station



Plug and Play Wireless Telemetry USB Base Station, used to configure T24 modules



User Benefits

- Simple plug & play USB
- Configure & calibrate the T24 range
- Data collection for PC/PLC

Ideal Application

- Alternative Energy
- Civil Engineering
- Automotive
- Construction
- Lift & Handling
- Marine
- Oil & Gas
- Industrial Processing
- Silo & Weighing Industry
- Torque Measurement
- Waste Measurement
- Theatre & Events

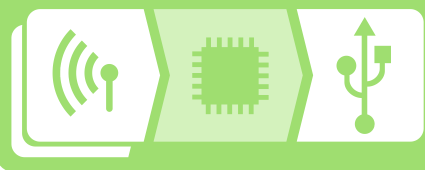
Introduction

The T24-BSu is a simple device. It draws power from the USB bus and therefore no further components are required to configure and control remote devices from a PC.

The T24-BSu is supported by not only the T24-toolkit but also with a .dll (Dynamic Link Library) allowing customers using VB (Visual Basic) to develop their own custom software for their applications.

Specification at a Glance

- Provides wireless data acquisition from T24 acquisition modules
- Configures any T24 telemetry module via USB
- Powered from USB
- Up to 100 m (325 ft) range
- Miniature desk or wall mounting
- IP65 / NEMA 4 enclosure dimensions 76 x 35 x 20 mm



Related Product



T24-BSi
Radio telemetry base station for USB
RS485 RS232



T24-BSue
Extended range wireless radio
telemetry USB base station



T24-GW1
Radio telemetry Modbus gateway



T24-RDC
Remote telemetry acquisition system for
data logging

Related Software



T24 Toolkit
Software used to calibrate and
configure your T24 devices



T24 24 Channel Logging
View and log up to 24 channels

Case Study

The Application:

A generator company were looking at a number of motors to potentially incorporate into their generator design. Each motor had rated power outputs but the company wanted to independently measure the power output of the various motors whilst in the generator housing, drawing various loads from the electrical supply

The Solution:

To measure the power of the motors it was decided that they would measure the torque on the shaft between the motor and generator windings and then multiply this by the RPM of the shaft. In order to capture the torque, the shaft was fitted with an inline torque transducer; a T24-SA strain acquisition module was calibrated to output the torque in N/m.

The RPM of the shaft was captured using an optic sensor which created a pulse every time a white dot on the shaft passed the

sensor; this sensor was coupled to a T24-PA pulse acquisition module which calculated the RPM of the shaft.

The manufacturer required readings at 100Hz so each module was set to transmit at 200 Hz to allow for radio collisions and ensure at least 100Hz per channel. A Single T24-BSu USB base station was used to collect all of the data, logging using the T24-LOG24. Once the data was logged back to a CSV file the two collected values could be multiplied and the output power calculated.



CE & Environmental

Storage Temperature	-40 - 65°C
Operating temperature	-40 - 65°C
Relative humidity	95% non condensing
IP Rating	IP50

CE Environmental Approvals

European EMC directive	2004/108/EC
Low voltage directive	2006/95/EC

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