

# DSCUSB - Strain Gauge to USB Converter Overview

*Jan 2015*

# DSCUSB - Why use DSCUSB?

## Simplicity

- No external components required
  - No PSU
  - No Interface cards
- USB available on most hardware platforms such as
  - PC & laptops
  - Tablets
- Easy to connect to your strain gauge sensor
- Free DSCUSB toolkit software provided
- Compatible with most load cells and sensors
- Non-expert maintenance
- Multiple devices can be used with one PC



# DSCUSB - Specifications

- High resolution. 1 part in 200,000 up to 200 measurement samples per second
- Low temperature drift circuitry
- Real mV/V calibration. Allows table calibration.
- Ability to communicate with multiple sensors
- Load cell integrity check
- ASCII protocol
- Shunt cal resistors
- Peak & Trough recording
- Advanced features include
  - 5 point temperature compensation
  - 7 point linearisation
- IP50 rated enclosure
- High & Industrial Stability versions



# DSCUSB - Software

## DSCUSB Toolkit

- Easy to use calibration & configuration
- Two point “live” and load cell certificate calibration
- System zero and over and under range limits
- Logging data to .CSV file
- Free!
- Advanced solution for OEM users

## DSC LOG24

- Up to 24 Channels
- Logging data to .CSV file
- Configuration of log interval, display resolution and number of channels
- Supports Windows XP, Vista & 7 (inc 64 bit)
- Log rate up to 100 samples per second



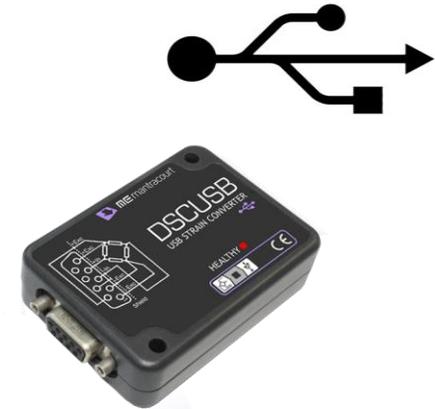
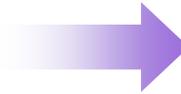
# DSCUSB - Applications

- Broad applications areas - Laboratory, Desk top etc
- Medical Testing Applications - Force Testing... Punch bag
- Diet Club - Recording Weight Direct from the Scales
- Bristol Museum Installation - Measuring Weight in Interactive Display

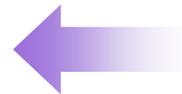


# DSCUSB - Application Example

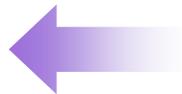
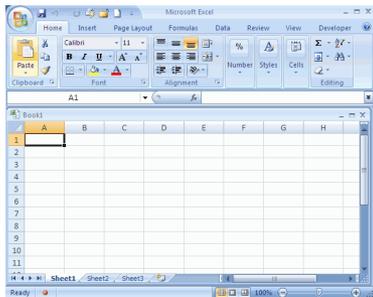
## Diet Club Weight Monitoring



Weigh scale connected to DSCUSB



Log as .CSV file into Excel





Thank you for your attention

For further information visit:  
[mantracourt.com](http://mantracourt.com)