



Transient Capture over USB

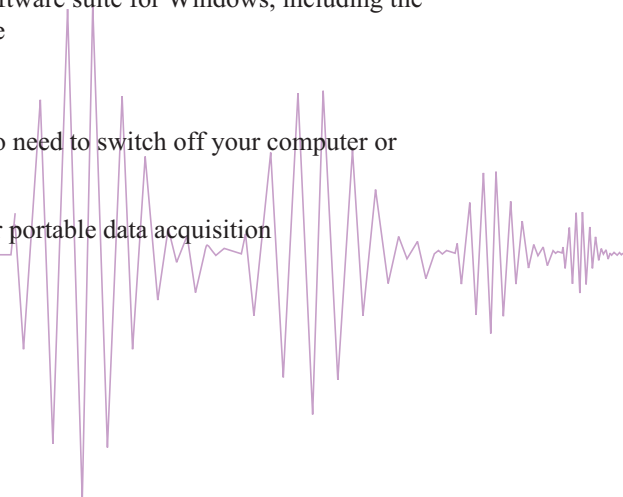
The Microlink 770 USB package

The cost-effective solution to transient capture. Not only has this powerful package many triggering options, but it's portable and measures many types of signals.

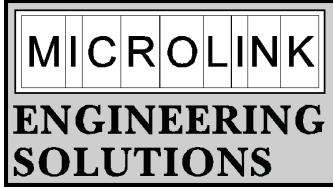
- Monitor 16 channels of temperature, strain, pressure, voltage or current at up to 100 kHz.
- 16-bit analogue-to-digital converter gives high resolution readings.
- Independent input ranges let you mix different types of measurements without losing resolution.
- Save data both before and after an event (pre- and post-trigger data). Useful for seeing, for example, what happened immediately before a fault occurred.
- A digital input into the Microlink lets other equipment trigger data capture: synchronising scans with external events.
- Alternatively wait until 1 or 2 readings cross a threshold before automatically starting to collect data. For example, when the temperature goes above or below your set points.
- Use the 770 to start other machinery simultaneously with data capture.
- For more accurate timing than your computer's clock allows, connect an external crystal-controlled clock.
- Easy-to-use with the Windmill software suite for Windows, including the Streamer transient capture module
- No programming necessary
- Plug in and unplug as required: no need to switch off your computer or even restart Windows
- Powered from USB port: ideal for portable data acquisition
- Free technical support for life

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“At last, powerful and portable dynamic strain measurement.”



Microlink 770 USB Package

- ✓ Portable data acquisition
- ✓ Test and measurement
- ✓ Research and development
- ✓ Quality assurance
- ✓ Crash testing
- ✓ Dynamic strain measurement

Microlink 770: Powerful, Easy-to-Use, Fast

There are three steps to data acquisition and control.

- 1 Plug the 770 into your computer's USB port—no need to switch off your PC or even restart Windows.
- 2 Connect your sensors and signals to the Microlink.
- 3 Load the Windmill software and you're ready to start capturing data.

The combination of the elegant design of the Microlink 770, the ease of use of the universal serial bus and the exceptional Windmill software for Windows ensures a simple yet powerful system.

Ideal for Portable Applications

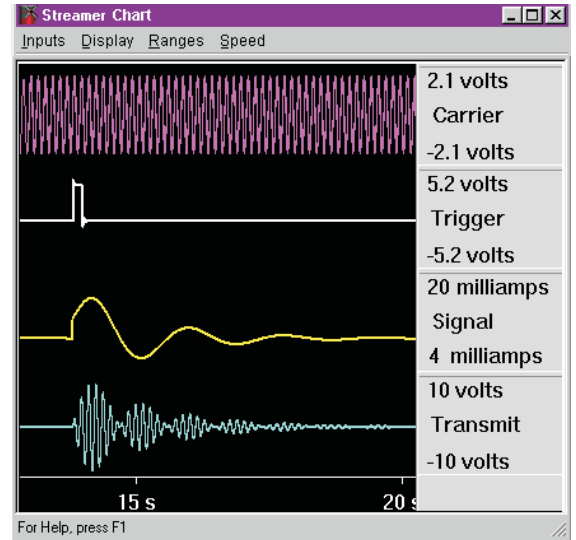
The compact Microlink 770 system is ideal for portable applications, such as collecting data from moving vehicles. Other applications include crash testing, product testing and dynamic strain measurement.

Data Analysis

You can save data in **several file formats**, including ASCII, FAMOS and binary. ASCII files can be loaded into a wide range of software. FAMOS format is optimised for the FAMOS waveform analysis package. Binary is the most compact format.

Excitation and Connections

Depending on your transducers, you may need extra hardware units and power supplies to make your connections. For example, for



The Streamer software shows real-time charts of data

thermocouples you need a Microlink 593 unit which provides cold junction measurement. For **strain gauges** you need a 594 connection box and excitation supply. This supplies sufficient current to keep all bridge circuits energised and lets you accept normal, tensile, compressive and transverse gauges. The strain signals can be configured as full, half or quarter bridge arrangements. You can specify information such as gauge factor and Poisson's number independently for each strain gauge.

Ordering

To order the Microlink 770 package, or to discuss your requirements, call now on +44 (0)161-834 6688. Alternatively, to request a quote via our web site go to <http://www.microlink.co.uk/770.html>

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Microlink 770 Specifications

Dimensions	180 x 120 x 40 mm
Interface	USB
Max. length of cable	5 m
Maximum distance from PC can be increased by use of USB hubs	
Differential inputs	16
Maximum safe input voltage:	
Power supply on	±35 V
Power supply off	±20 V
Voltage Ranges	±10 V, ±1 V, ±0.1 V
Common mode range	±10 V
Resolution A-D converter	16 bits
Throughput	100 000 samples per second
Maximum linearity error	±0.02%

External Clock and Trigger Connections:

Compatibility	TTL, 5 V CMOS
Safe input voltage	0-5 V
Trigger output	5 V during sampling
Clock pulse width	1 µsec
Trigger pulse width	1 µsec