The µlogger -RVIP

Key Features

Four separate channels, including one connected to an internal temperature sensor.

12-bit (0.025%) resolution.

0.25% basic accuracy.

Accepts current, voltage, resistance, pulse frequency and logic levels inputs.

Almost any sensor producing a current, voltage, resistance or frequency output can be scaled and linearised.

Can log digital time events to an accuracy of one second.

Lookup tables supplied free of charge.

Can operate for over two years on an AA battery.

Up to 32000 samples can be stored in non-volatile memory.

Small size: 50 x 24 x 90mm.

Available from:

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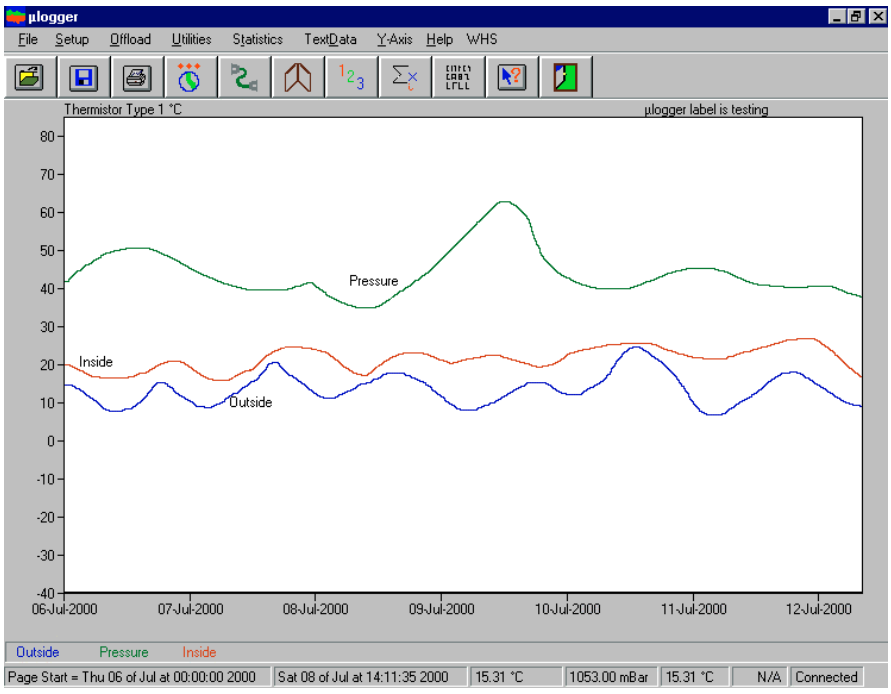
Zeta-tec

The µlogger (pronounced micro-logger) is a small, high quality and versatile battery powered remote data logger. The µlogger has four inputs channels (Resistance, Voltage, Internal Temperature & Digital states) or alternatively can be configured to log Digital time domain events. Additionally the µlogger can be used with alternative sensors, leads and supplied lookup tables to measure parameters like current, light level, barometric pressure, humidity, strain or 4–20 ma. High quality precision components are used throughout. The supplied software allows the µlogger to be configured before leaving it at the logging site. At the end of the logging period your data is offloaded and can be displayed and analysed using the same software.



TECHNICAL SPECIFICATIONS

Hardware

- Up to 12 bit (0.025%) resolution with a basic 0.1% accuracy, 8-bit and 10-bit resolution can also be set to maximise memory usage.
- Four basic input channels; one, two, three, or all four channels can log simultaneously.

1. External channel for measuring resistance (0 – 50k).
2. External channel for measuring voltage (0 - 2v >1MOhm).
3. Internal channel for measuring temperature (-40°C to +85°C) within ± 1ºC.
4. External channel for measuring pulses per sampling interval or logic level at sampling point.

- Alternatively the PC software can configure the µlogger to record single time domain events with one second resolution, and user settable debounce (from 1sec to 1 hour).
- Time and pulse inputs can either be 'active' (i.e. a voltage pulse) or 'passive' (i.e. a switch).
- Up to 32000 measurements (depending on resolution required) can be recorded or over 8000 time events and their occurrence time.
- Logging interval 1sec. - 12 hours.
- 1 AA user replaceable battery (lasts over two years with standard use – supplied with a µlogger).
- User settable alarms on each channel.
- High specification industrial grade components used throughout for maximum reliability.
- Wake up pulse from µlogger for external sensors.

Software (a trial version can be downloaded from our Web-site)

- Runs under W95 (or greater) or NT 4.0 (or greater).
- Graphical or textual display for your data.
- Zoom in on your data.
- Scroll through your data.
- Name your probes.
- Min., Max. and average calculation.
- Save and load data and files.
- Save and load configuration files.
- Set 'look-up' tables to use for each channel.
- Set start & stop time (stop when full, after a set time or allow memory rollover).
- Log while connected to PC.
- Interrupt driven serial comms. (COM 1 – 4).
- Print data graphs.
- Export data to your spreadsheet.

Optional extras

- A wide variety of sensors to measure temperature, DC current, AC current, barometric pressure, humidity, 4 – 20ma etc. New sensors are being added all the time.

E & O.E.