

KA Sensors Ltd

Sensing - Measurement - Control Solutions for Motor Sports

- **21 bit max resolution**
- **50kHz max data transfer rate**
- **5 analogue inputs**
- **1 digital, 1 counter input**
- **5 digital outputs**
- **1 analogue output**
- **USB plug and play**
- **Sensor power from USB**
- **Software supplied**

The KA-USB Logger is a new generation high speed data acquisition system with up to 21bit resolution. Logging Rate up to 50,000samples/second per channel.

Power for the logger and sensors is taken from the USB Connection. An additional power supply input is provided for use when the sensor power requirement is high.

The inputs suit many types of sensors including: Pressure, Force, Accelerometers, Torque, Displacement, Switches & Counters.

The system will supply power and fully condition most sensors directly without the need for extra components. Connection to the PC is via a standard USB cable.

Simple to use software enables sensor configuration, Logging rate, output functions.

Digital outputs provide a control function.

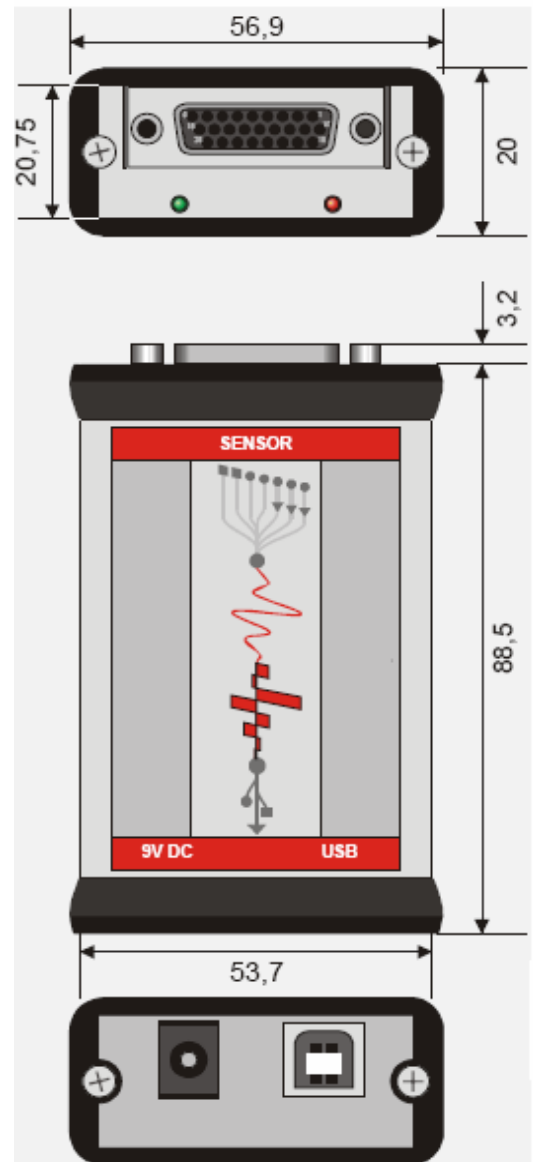
Drivers for most common data acquisition software programs are available.

Export data in CSV file by single button operation.

The KA-USB is ideal for mobile applications or equally useful for systems integrators for stand alone data collection systems.

KA Sensors also supply sensors, wiring and complete turnkey systems.

KA-USB Data Logger



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Technical data

- Analogue inputs: ch 1 to 3: $\pm 10\text{mV}$ to $\pm 5\text{V}$
- Analogue input: ch 4: $\pm 10\text{V}$
- Analogue input: ch 5: 5V
- Resolution/sampling rate:
 - Ch 1 to 4 20/21 Bit (0-5V FSO, 4sample/sec)
 - 17/18 Bit (0-5V FSO, 500sample/sec)
 - 15/16 Bit (0-5V FSO, 6ksample/sec)
- Ch 5 10 Bit (0-5V FSO, 50ksample/sec)
- Digital input: TTL- compatible, -0.5 to $+6\text{V}$
- Counter input: Max 5MHz, 32 Bit resolution
- I/P high: 2V . I/P low: 0.5V , Max pulse 100nS
- Sensor connection: 26pin D type
- Sensor excitation: $\pm 5\text{V}$ or $\pm 12\text{V}$
- Output: USB-B connector
- Software: configuration, display, logging
- Driver for labview
- Indicators:
 - LED-green USB supply, Red External supply
- Power supply: Via USB
- Max current: 300mA
- Max current: 600mA with external supply

Options:

- Power supply
- Accessory kit
- Connection breakout terminal box
- Adaptor cables
- Sensor excitation: $\pm 5\text{V}$, $\pm 15\text{V}$ regulated
- Custom wiring harness
- Sensor supply

