

DL1 Sport Data Logger

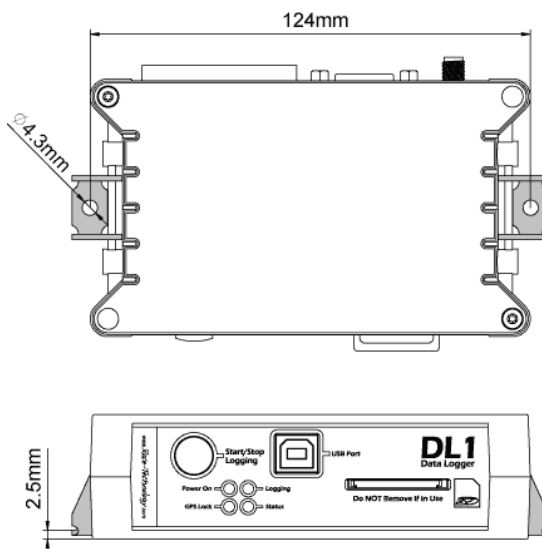
Record up to 64GB of data to removable CF memory card, for fast data transfer - ready for PC analysis

Up to 8 analogue inputs and RPM input. Connect sensors such as: Steering angle, damper pots, brake pressure, engine sensors etc.

Integrated GPS receiver and accelerometers, measuring speed, position, lap and sector times, cornering and braking forces

Start and stop logging automatically, or with the simple start/stop button

Quick and reliable connections with spring loaded terminals



Memory	Compact flash type I. Formatted as FAT/FAT16 or FAT32
GPS	Outputs position, speed, position accuracy and speed accuracy every 200ms with no interpolation. GPS tracking loops optimised for applications up to about 4g. tracking of all satellites in view.
GPS Antenna	Magnetic base, 3.3v active antenna with SMA connector.
Analogue Inputs	8 external inputs, all 12 bit resolution and 0-12v. All inputs are protected to twice maximum input voltage.
Lap Beacon Input	Triggering voltage requires a low input of <1v and a high input of >4v and 15v maximum.
Start Sample Input	Input requires grounding to start sampling and again to stop sampling.
GoPro control output	Pulls low at start and end of logging to trigger a GoPro camera to start/stop recording.
Power Supply Requirements	12v nominal input, minimum of 10v, maximum of 15v. Current consumption of about 180mA including GPS, dependant on compact flash card size +5v Reference Out Maximum current draw 100mA, tolerance 1%.
Ignition In Signal (High Level)	Triggered by fast voltage transients. Can be connected directly to the low tension side of the ignition coil.
Ignition In Signal (Low Level)	Triggering voltage requires a low input of <1v and a high input of >4v and 15v maximum. Suitable for connection directly to most ECU tacho outputs. Maximum input frequency >300Hz.
Case Construction	Injection moulded plastic
Connector Type	3.5mm pitch lever connectors
Main Processor	40MHz RISC with embedded flash program memory
Serial Ports	Outputs sensor data for display on DASH unit.. Also used for re flashing, diagnostics and configuration. Also used to connect to an ECU adapter for logging additional data.
Accelerometers	3 axis, precision digital output. Guaranteed 2g minimum full scale on both axes. Resolution of 0.005g. Optional 6g sensor available as a factory option.
Vibration	Factory tested at 25g, 50Hz sinusoid for 5 minutes (without compact flash card inserted).
Temperature	Factory tested from -20oC to 70oC
Dimensions	123mm wide, 70mm deep (excluding rear connectors), 34mm high