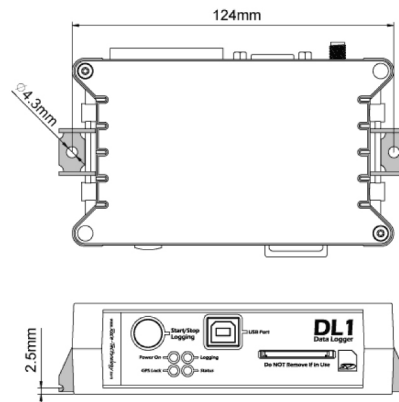


DL1 Club Data Logger



Memory	SD memory card, can be SD or SDHC. Up to 32GB. FAT32 only
GPS	Outputs position, speed, position accuracy and speed accuracy at 5Hz with no interpolation. GPS tracking loops optimised for applications up to about 4g. tracking of all satellites in view. 20Hz raw data storage for post-
GPS Antenna	Magnetic base, 3.3v active antenna with SMA connector.
Analogue Inputs	12 external inputs, 0-25v. All inputs are protected and have a 2nd order filter with corner frequency of 105Hz. Accuracy = 0.4% of measured voltage +/-20mV. Sample rate 100Hz as standard, 1kHz optional..
Frequency Inputs	4 external frequency inputs with a maximum input frequency >2kHz. Triggering voltage requires a low input of <1v and a high input of >4v and 15v maximum.
Lap Marker Input	Triggering voltage requires a low input of <1v and a high input of >4v and 25v maximum.
Start Sample Input	Triggering voltage requires a low input of <1v and a high input of >4v and 25v maximum
Low level outputs	4 low side drivers updating at 10Hz, each capable of driving 500mA.
Power Supply Requirements	12v nominal input, minimum of 10v, maximum of 23v (higher voltages can be accommodated if specified at the time of ordering). Current consumption of about 180mA including GPS, dependant on SD card requirements. +5v Reference Out Maximum current draw 500mA x 2.
Ignition In Signal (High Level)	Designed to connect directly to negative terminal of ignition coil. Can also fire from fuel injectors and from CD ignition systems.
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 tach outputs. Maximum input frequency >300Hz.
Case Construction	Injection moulded ABS with polycarbonate front and back panels. Dimensions (WDH) 122mm x 90mm x 34mm
Connector Type	3.5mm pitch lever terminals
Main Processor	150MHz TI Digital Signal Processor
Serial Port 1	User configurable for messages. Transmission and reception of RT format messages at 115200 baud
Serial Port 2	Used for reception of RT messages at a fixed baud rate of 115200
CAN Port	Message reception and transmission up to 1MBit/s
Computer communication	USB port for reflashing, reading/writing configuration, viewing live data, and downloading files.
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.
Gyroscope	Single axis yaw rate gyro with a maximum rate of 300 degrees / sec.
Vibration	Factory tested at 25g, 50Hz sinusoid for 5 minutes (without compact flash card inserted).
Temperature	Factory tested from -20oC to 70oC