

Key Off Logger (KOL)



Description:

The KOL is a self powered current logger. It records current consumptions from milli-ampere to over 500 ampere for up to 24 hours and stores the data on a micro SD card. It has adjustable sample rates and a real-timeclock for accurate timestamping within the recordings.



Basic Operation:

The KOL is designed to record key off current consumptions for Internal Combustion Engine (ICE) and/or electric vehicles. The current shunt goes inline between the battery and the electrical system. The KOL can be setup through a USB connection. Once triggered the unit will start recording at a selected rate for up to 24 hours. Data is recorded on a micro SD card and/or viewed live through the USB or a Bluetooth device. All data is time and date stamped for accuracy which are set in relationship to GMT time based on location. Sample rates from every 0.5 seconds to 2 minutes per sample. The current shunt is weather protected to a rating of IP65. Unit is self powered via a USB connection to a portable power-bank. All cables, micro SD card and power-bank are provided with the system.

Selectable options:

- ◇ Echo to USB port on and off
- ◇ Sample rate
- ◇ Larger SD cards
- ◇ Extended life power station
- ◇ Custom Bluetooth Apps
- ◇ Battery connection hardware (cables)
- ◇ Storage cases

Electrical Specifications:

Signal	Minimum	Maximum
Continuous Current Range	1 mA	±200 A
Max Current for less than 10 seconds		± 513 A
Current Shunt Resistance	95μΩ	105μΩ
VCC Supply Voltage	4.5 V	5.5 V
IVCC @ +5 V		16.4 mA
Accuracy	±0.05 %	±0.1 %
Voltage measurement *±300 V for 5 seconds or less	±150 V	±300 V
VX Offset	-20 mV	+10 mV
Operating Temperature	-25°C	+85°C
Current Shunt Ingress Rating		IP65

4 Pin Specifications:

Signal Name	Pin Number	Signal Description
Ground	1	Ground
RX	2	Receiver Line
TX	3	Transmission Line
+5V0_USB	4	+5V IN

Dimensions LxWxH: (85x75x20)mm



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