

Introduction

LogIT is a professional solution for data acquisition, data display and data analysis developed especially for drivers of racing karts. Its design combines the full range of necessary functions in one compact module that can be mounted on the steering wheel of the kart.

Main Features

- Accurate recording of split and lap times
- Acquisition of engine rev for both 2- and 4- cycle engines
- Concise data display for the driver
- Memory capacity for nearly 2 hours of recording
- Interface to a PC and user-friendly software pack for data analysis

Table 1. thermal characteristics

Parameter	Min	Max	Unit
Storage temperature	-15	70	°C
Operating temperature [†]	0	50	°C
Storage relative humidity	10	90	%
Operating relative humidity	15	85	%

† Allow the LogIT unit to acclimate to the ambient temperature prior to operation in order to avoid condensation which might cause short-circuits.

Table 2. electrical characteristics

Parameter	Min	Max	Unit
Supply voltage	9.0	12.0	V
Current consumption (on)	14	20	mA
Current consumption (off)		0.1	µA
Battery type	9V block		
Battery lifetime (on) [†]	22	32	h

† assuming a typical battery capacity of 450mAh

Table 3. sensor characteristics

Parameter	Min	Max	Unit
Mounting height above ground of magnetic sensor		8	cm
Internal timebase (nom. 4 MHz)	3.9996	4.0004	MHz
Duration between time acquisitions	2.6		s
Engine rev sampling rate	3.32	3.34	1/s
Measurable engine rev	100	25000	RPM
Resolution of engine rev measurement	100		RPM

Table 4. recording characteristics

Parameter	Min	Max	Unit
Lap or sector time		99.999	s
Number of times per lap	1 or 3		
Recording length of engine revs per lap	340	345	s
Recording capacity	110	113	Min

Table 5. memory characteristics

Parameter	Min	Typ	Unit
Number of Reset cycles [†]	10k	100k	
Number of recorded laps [†]	100k	1M	
Characteristic Retention	40		Year

† whichever is reached first

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Table 6. display characteristics

Parameter	Min	Max	Unit
Lap/sector time		99.999	s
Total running time †		99.98	min
Engine rev	100	25000	RPM
Number of laps		254	

† The maximum displayable running time is 99'59'.

Table 7. mechanical characteristics

Parameter	Typ	Unit
Case, length	116	mm
Case, width	70	mm
Case, depth	25	mm
Mounting Screw, length	25	mm
Mounting Screw, diameter	5 (M5)	mm
Weight without cables	180	g

Figure 1. mechanical dimensions

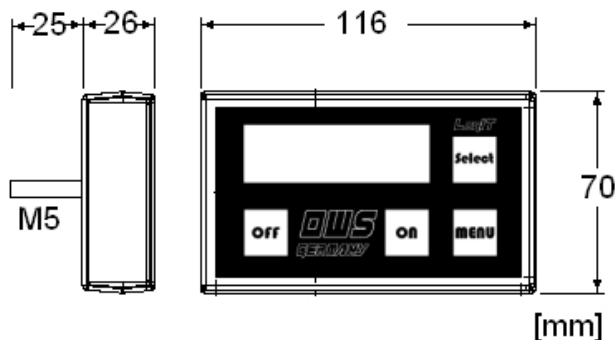


Table 8. hardware requirements

Parameter	Value
Operating System	Windows 95/98/2000 ME/NT/XP
Memory	≥ 64 MB
Space on Hard Disk Drive	≥ 10 MB
CD-ROM Drive	min. 2x
Interface	Parallel Port

Transmission characteristics

A proprietary protocol is used for transmission between the LogIT unit and the analysis software. The timing is performed by handshaking. Hence the transmission rate depends on the clock frequency of the processor. For a 1.5 GHz PC-system a typical value is 1s transmission time for 20s recording time.

Accessories

Table 9. PC link Cable

Parameter	Value
Connector (LogIT)	stereo jack 3.5 mm
Connector (PC)	D-Sub jack 25 pins
Length	2.4 m

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