2D Debus & Diebold Meßsysteme GmbH, Alte Karlsruher Str. 8, D-76227 Karlsruhe
Tel.: +49(0)721 94485-0 Fax.: +49(0)721 94485-29

LG-KitTrackday08-000 — Kit Datalogger and Interface Unit

Features

- Datalogger with 30 channels:
  - 8 CAN
  - 5 Analog Input
  - 3 Digital Input
  - 1 Lap Input
  - 1 Digital Output
  - 2 Internal channels (Vext / CPU temperature)
  - 10 GPS channels (Speed, Banking, Position, Time...)

  Optional customer request)
  - 3 Acceleration (internal sensor)
- 1 separate CAN line for data connection to ECU
- Separate display CAN connection
- External power supply 12-20V
- Predefined channel setting per vehicle
- Compact housing and light weight (150g)
- Easy connection of sensor signals through single AMP connector (=interface unit)

Interface unit
34-pin AMP connector

Technical specifications

Logging

Channels	30	
Recording time	55	min
Storage rate	fixed	
Internal sampling rate	3.2	kHz

Analogue inputs

Single ended inputs (AIN1-AIN4)	5	
with Pullup@5V AIN1 | 2 | 6		
without Pullup AIN7 | 8 | ..		
Input voltage range	0-5	V
Input filter:		
Cut-off frequency (-3dB).	100	Hz
Damping (per decade)...	12	dB

Digital input channels

Input capture: DIN1 – DIN3	3		
DIN1 – DIN3 with Pullup@5V	Yes		
Max input frequency	2	kHz	
DIN1/DIN3 (Speed,V_ear,V_front)..	Lo	Hi	
Threshold (level1)	1.7	3.4	V
Threshold (level2)	0.4	1.0	V
Cut-off frequency (-3dB).	10k	Hz	
DIN2 (RPM):			
Threshold (level1)	3.5	8.3	V
Threshold (level2)	1.7	3.4	V
Cut-off frequency (-3dB).	4.8k	Hz	
LAP input:			
With Pullup@5V	Yes		
Cut-off frequency (-3dB).	100	Hz	
Resolution	5	mV	

Digital output channel

Digital output (with open collector)..	1	
full protected	Yes	
Sink current (up to)	200	mA

Internal channels (resolution)

3-axis acceleration	0,01	m/s²
VextMsg	0,01	V
CPUTempMsg	0,1	°C

Electrical characteristics

Power supply	12-20	V
or USB Bus powered (5V) as well	possible *	

▽ * Use USB power to the logger only for setup and download of data. While using USB power no sensors or add on kits should be connected to the logger !

Current consumption:

@ 12V	w/o GPS w/o sensors..	100	mA
@ 12V	w/ GPS w/o sensors....	130	mA
@ 5V	w/o GPS w/o sensors..	230	mA

Sensor supplying max. values

max.	Current output (+12V)	200	mA
max.	Current output (+5V)	100	mA
Σ in summary max. power output.		2.5	W

Environmental data

Operating temperature	0-75	°C
Humidity	0 to 95	%
Sealing class	IP	66

Vibration resistance

Shock	40	G
during a time period of	10	ms
Vibration tested at	12	G
with a frequency of	1000	Hz

Ordering information

Art.No.:.....LG-KitTrackday08-000

2D Debus & Diebold Meßsysteme GmbH
http://www.2D-datarecording.com
http://www.2D-Kit-System.com
mail@2D-datarecording.com

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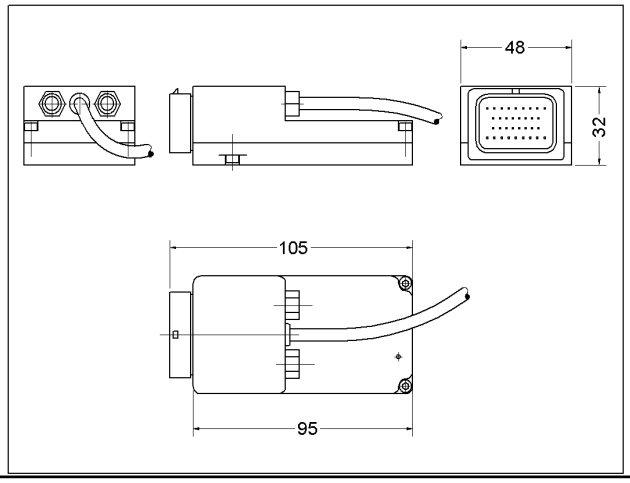
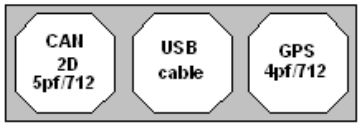
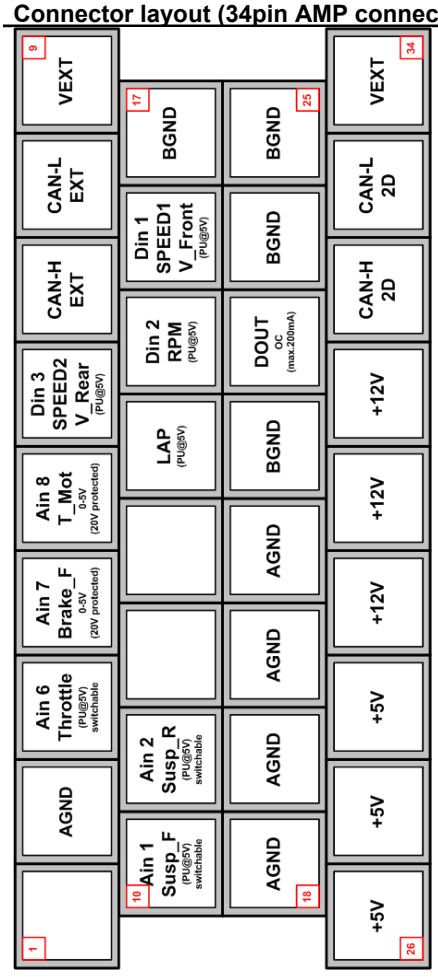
Dimensions | Weight





weight (w/ cables): 150g

Connector layout (34pin AMP connector)



(rear view: Tyco PIN lead in)

Connector types

Plug at module **Mating plug**

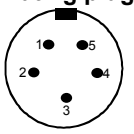
2D Display CAN connector

CAN-line Binder 712, 5pin

Pin	Name	Description	Color
1	CAN H	CAN Bus High	white
2	CAN L	CAN Bus Low	green
3	GND	Ground	black
4	n.c.	Not connected	-
5	Vext	Power IN (4-18V)	red

Plug at module **Mating plug**

Binder 712, 5 PF (front side)



Binder 712, 5 PM (front side)

2D Debus & Diebold Meßsysteme GmbH
http://www.2D-datarecording.com
http://www.2D-Kit-System.com
mail@2D-datarecording.com