

TECHNICAL DOCUMENTATION	30/12/2008	Logger	evo4
Notes: evo4 technical documentation, dimensions and pinout – Version 1.00			

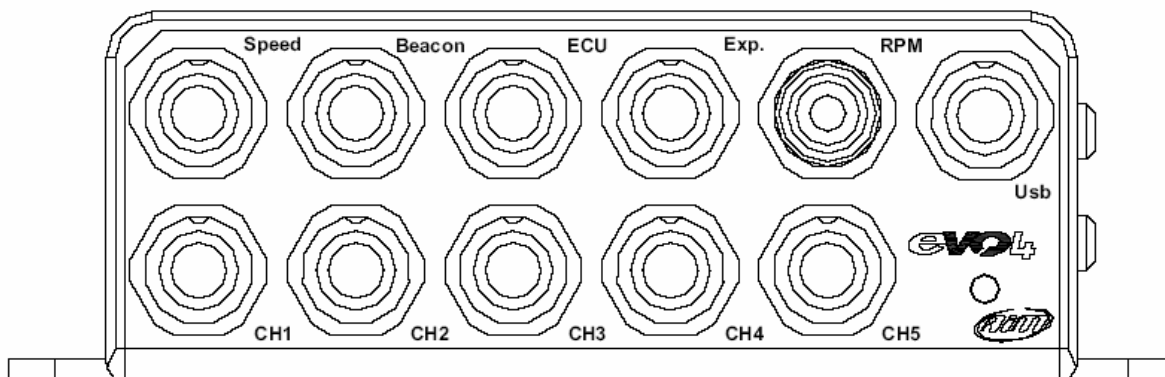


Figure 1: **evo4**

Introduction

EVO4 is the new AIM logger:

Complete: with 5 fully configurable analog channels, integrated GPS module and tri-axial accelerometer, **EVO4** gives the driver all key information for best vehicle tuning and driving technique improvement. **EVO4** provides all information coming from sensors together with data deriving from **Engine Control Units (ECU's)**, as well as two wheel speeds.

Modular: CAN output connects **EVO4** to all AIM products: from simple dashes to Formula steering wheel, from additional devices (like TC Hub, the thermocouples multiplier, and Channel Expansion, the channels multiplier) to LCU-ONE lambda controller.

Moreover **EVO4** can be connected to MemoryKey for easy and immediate data download and transfer to Pc.

Compact: thanks to its small dimensions (105x40x33 mm) **EVO4** fits car as well as bike installations.

High-value-for-money: in spite of its winning characteristics, **EVO4** has a very competitive price: all this leads to an incomparable price/quality ratio among all data loggers currently available on the market.

MAIN FEATURES

5 fully configurable analog channels
 2 speed channels
 1 digital RPM channel
 1 tri-axial internal accelerometer
 Integrated GPS module
 Laptime (magnetic/optical lap and GPS lap)
 CAN protocol for external expansion modules
 ECU Interface

5 KHz total sampling frequency
 USB cable for data download
 Memory: 8 Mb
 External power: 8-16 V
 System dimensions: 105 x 40 x 33 mm
 Weight: 240 g

Waterproof IP67

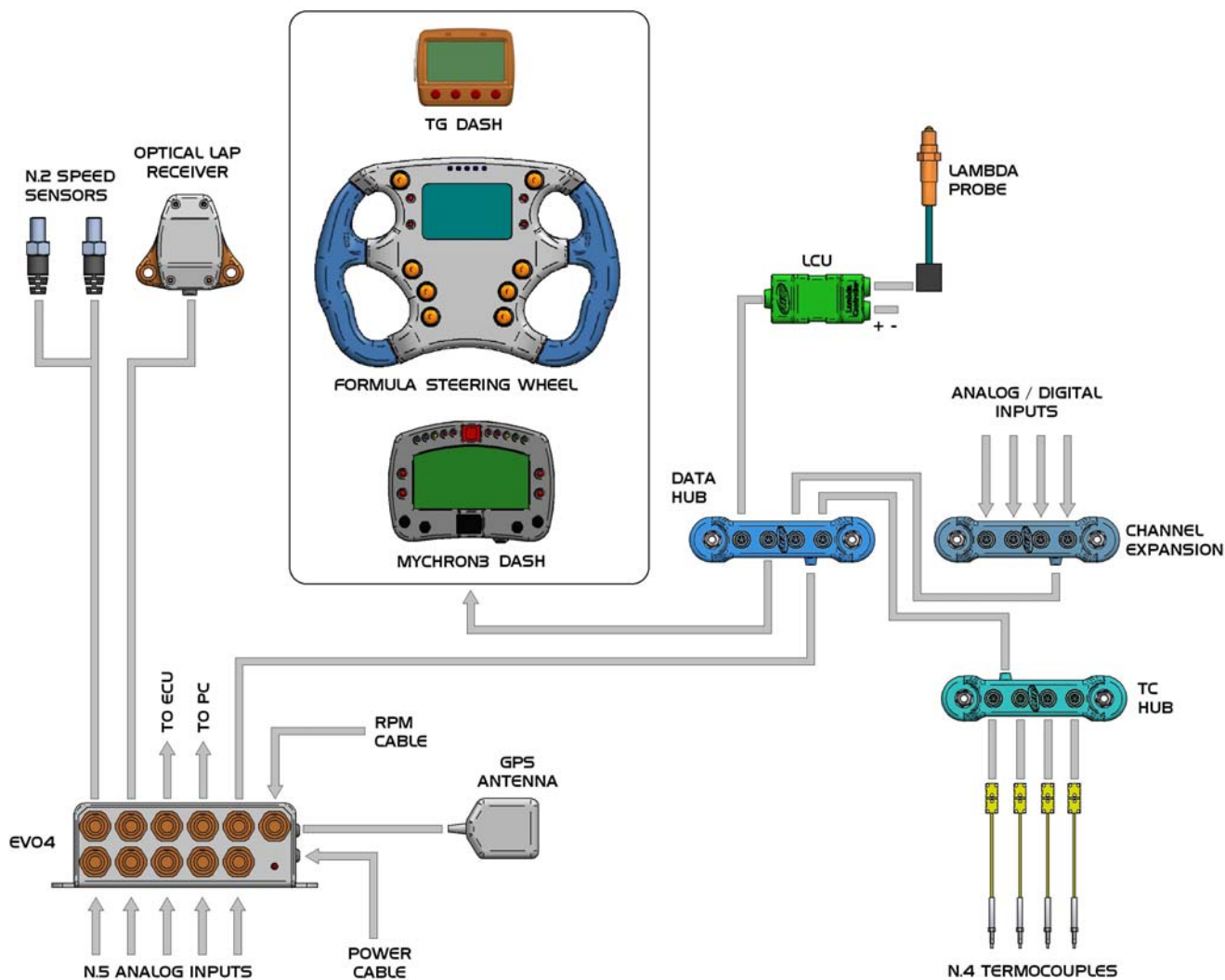
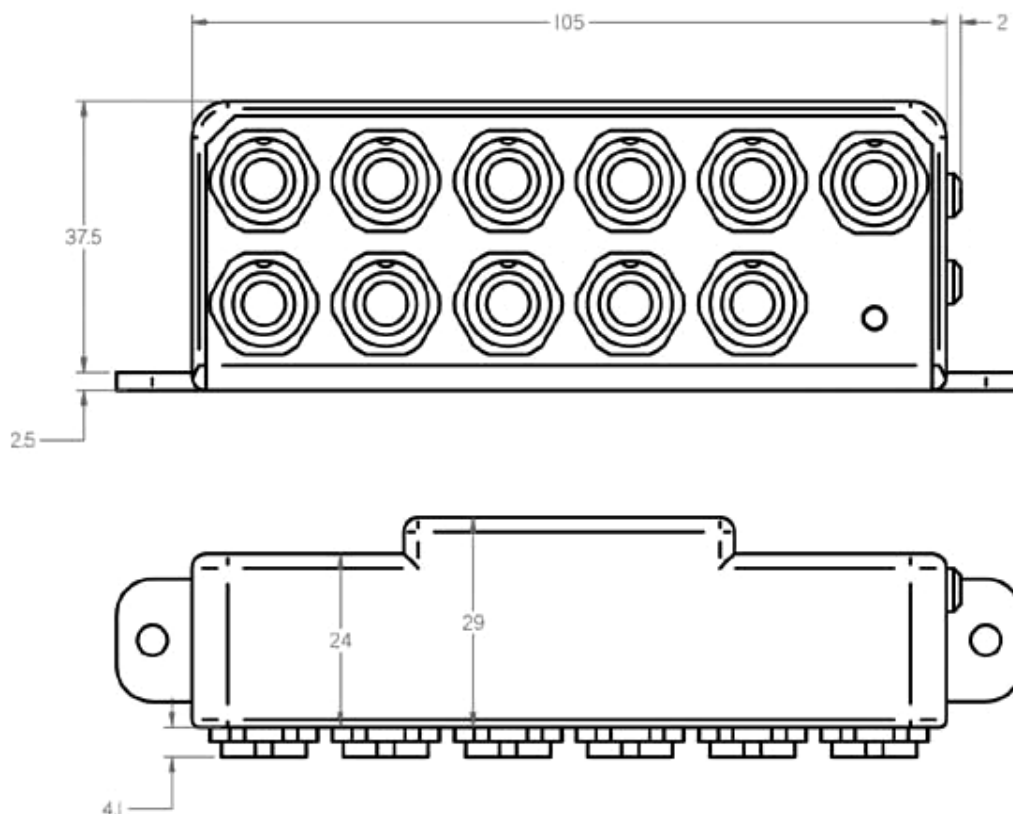


Figure 2: connection example

Dimensions in millimeters



Connector details (SPEED)

Pin	Function	Pin	Funktion
1	Speed 1	3	+VB
2	GND	4	Speed 2

Connector details (BEACON)

Pin	Function	Pin	Funktion
1	Magnetic Lap	3	+VB
2	GND	4	Optical Lap

Connector details (ECU)

Pin	Function	Pin	Funktion
1	RS232RX	3	CAN 1+
2	GND	4	RS232TX
5	CAN 1-		

Connector details (EXP)

Pin	Function	Pin	Funktion
1	CAN 0+	3	+VB
2	GND	4	CAN 0-
5	VB Ext.		

Connector details (RPM)

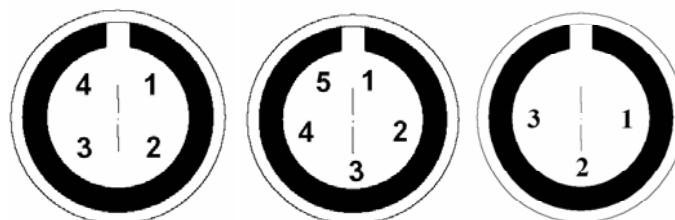
Pin	Function	Pin	Funktion
1	RPM Input	3	RPM 4-8 V
2	GND	4	K-Line
5	Digital Output		

Connector details (USB)

Pin	Function	Pin	Funktion
1	USB D+	3	GND
2	USB D-		

Connector details (CH1 – CH5)

Pin	Function	Pin	Funktion
1	Analog Input	3	+VB
2	GND	4	V Ref.



Female Binder connector pinout (external view)