

MyChron3 Dash

User Manual



Racing Data Power

Introduction

MyChron3 Dash is the perfect replacement of the stock dash and allows to show and customize **EVO3 Pro**, **EVO3 Pista** and **EVO4** channels with RPM, speed, engaged gear, temperatures, oil pressure, lap time, alarms, etc..., as well as all signals coming from your vehicle ECU.

MyChron3 Dash allows to show:

- speed;
- RPM (digital value and graph bar);
- shift lights;
- up to 4 configurable channels;
- channel alarm led;
- lap time;
- split time;
- best lap;
- GPS signal status (if present).

INDEX

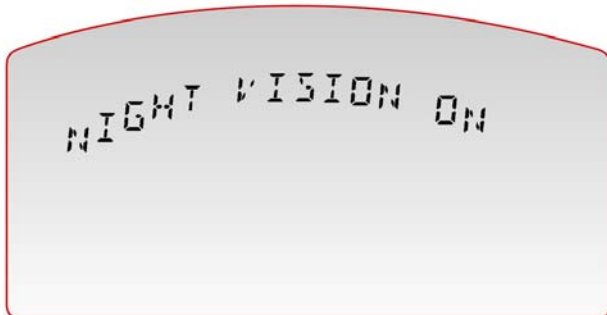
Chapter 1 – Menu functions	4
Chapter 2 – Data visualization while running	5
2.1 – EVO3 Pro and EVO3 Pista.....	5
2.2 – EVO4 and EVO3 Pro/Pista with GPS expansion	6
2.2.1 – GPS Signal and split times setting.....	7
Chapter 3 – Data recall	8
3.1 – Buttons functions in data recall.....	8
Chapter 4 – MyChron3 Dash connection scheme	9
Chapter 5 – MyChron3 Dash configuration	10
Appendix – Connection cable	11

Chapter 1 – Menu functions

In this chapter is a short description of **MyChron3 Dash** menu functions.

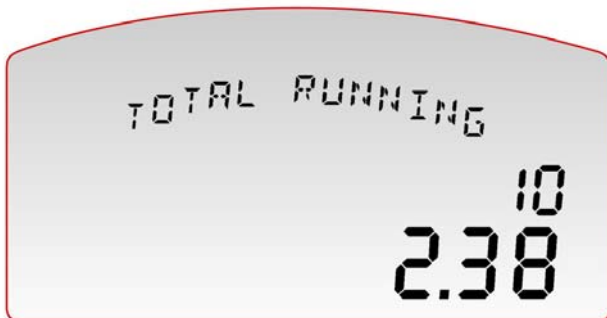
To enter the menu press “**MENU/←←**” button.

The display shows some pages: here they are shown in the same order as they appear:



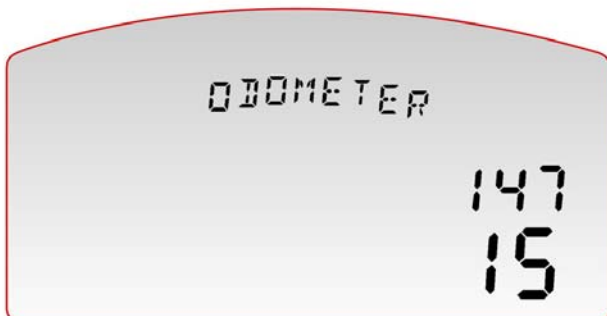
Night Vision (ON/OFF)

Switches on/off the display backlight; if **EVO** is sampling data it is possible to switch on/off the backlight pressing “**MENU/←←**” button.



Total Running

Allows to see the total sampling time. The page shows total sampling time of the logger in minutes and hours – non resettable on bottom and partial one – resettable on top; it is possible to erase data pressing twice “**MEM/OK**” button



Odometer

Allows to show run kilometres. The pages shows total run kilometres from the first acquisition (non resettable) and partial run kilometres (since last reset). To erase partial kilometres it is necessary to erase partial run kilometres in **TOTAL RUNNING** page



Firmware Version

Allows to have information concerning firmware version (1) and logger serial number (2)

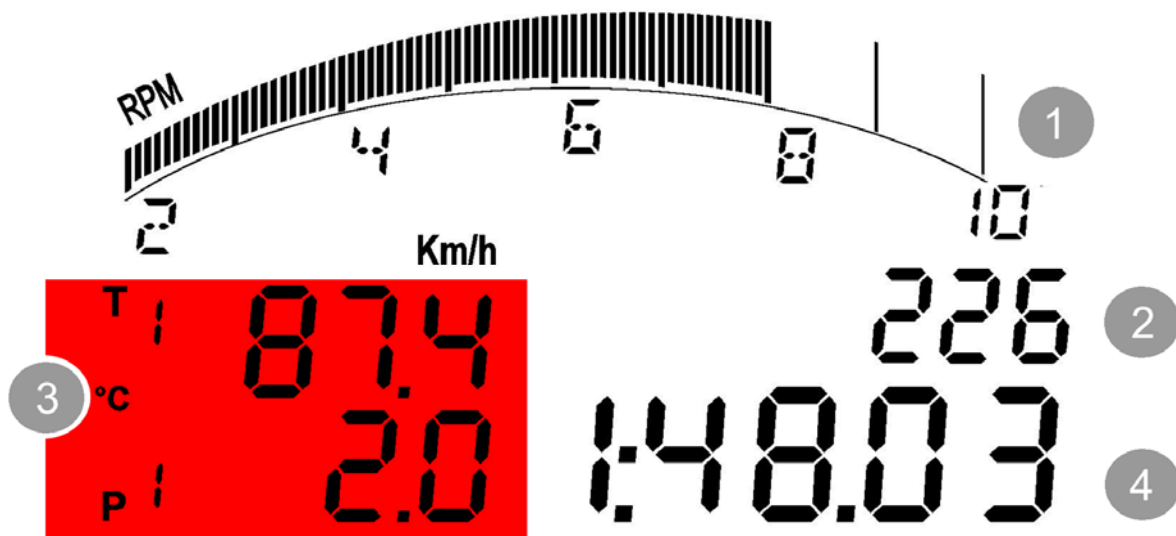
Chapter 2 – Data visualization while running

Thanks to **MyChron3 Dash** it is possible to show data sampled by the logger instantaneously and very easily.

According to the model of **EVO** and to the connected expansions refer to the following paragraphs.

2.1 – EVO3 Pro and EVO3 Pista

The main window shows:



1 – RPM GRAPH BAR

2 – **3 FIELDS SET BY DEFAULT** and visible in succession:

- Digital RPM value;
- Best lap time;
- Speed (226 Km/h in the figure above).

To switch from one page to the following press “**VIEW**” button.

3 – **4 CONFIGURABLE FIELDS** visible two by two (on the first and on the second page). To switch from the visualization of the first page to the visualization of the second one press “>>” button.

In case the channel shown is a temperature letter T (field T1) appears beside the channel value. In case the channel shown is a pressure letter P (field P1) appears beside the channel value; in case other kind of channels are sampled the display shows only a numeric identifier.

4 – LAP/SPLIT TIMES

2.2 – EVO4 and EVO3 Pro/Pista with GPS expansion

The main page shows:



1 – RPM GRAPH BAR

2 – **5 FIELDS SET BY DEFAULT** and visible in succession:

- Digital RPM value
- Best lap time
- Speed (226 Km/h in the figure above)
- GPS Signal status
- Lap and split settings

To switch from the visualization of one value to that of the following one press “VIEW” button.

3 – **4 CONFIGURABLE FIELDS** visible two by two (on the first and on the second page).

To switch from the first page to the second one press “>>” button.

In case the channel shown is a temperature letter T (field T1) appears beside the channel value. In case the channel shown is a pressure letter P (field P1) appears beside the channel value; in case other kind of channels are sampled the display shows only a numeric identifier.

4 – LAP/SPLIT TIME

5 – GPS SIGNAL STATUS

2.2.1 – GPS Signal and split times setting

Thanks to GPS lap timer it is possible to have information concerning lap/split times without using any external lap transmitter.

It is possible to set lap and split directly through the logger following this procedure:

- set GPS lap timer in **Race Studio 2** and transmit the configuration to the logger (see **Race Studio Configuration** user manual).
- Scroll pages of the **FIELDS SET BY DEFAULT** until the page here below appears



OK SET GPS MARKER

Press “**MEM/OK**” button to start lap/split setting procedure.

- Enter the track with the vehicle and choose the physical points where to record laps and splits and follow this procedure.



OK TO SET SPLIT 1

This page appears only in case splits have been set in configuration.

The number of splits to be set depends on **EVO** configuration.

Confirm the selection pressing “**MEM/OK**” button in the point where the split is to be set.



OK TO SET LAP

Press “**MEM/OK**” button in correspondence of the point where to set the lap marker.



GPS MARKER END

This page means GPS lap timer setting is over.

This message appears only if the setting procedure has been successfully completed.

Now **MyChron3 Dash** samples automatically lap and split times using only GPS signal. For further information concerning the configuration, refer to **Race Studio Configuration** user manual, **EVO4** chapter.

Chapter 3 – Data recall



When the session is over it is possible to recall recorded data following this procedure: pressing “**MEM/OK**” button.

The display shows test and lap number the data refer to (see image above): “TEST 02 - LAP 001”.

Data recall shows first best lap of the last test.

The static box – bottom right – shows each lap time of all sessions.

The best lap time of each session is shown blinking.

3.1 – Buttons functions in data recall

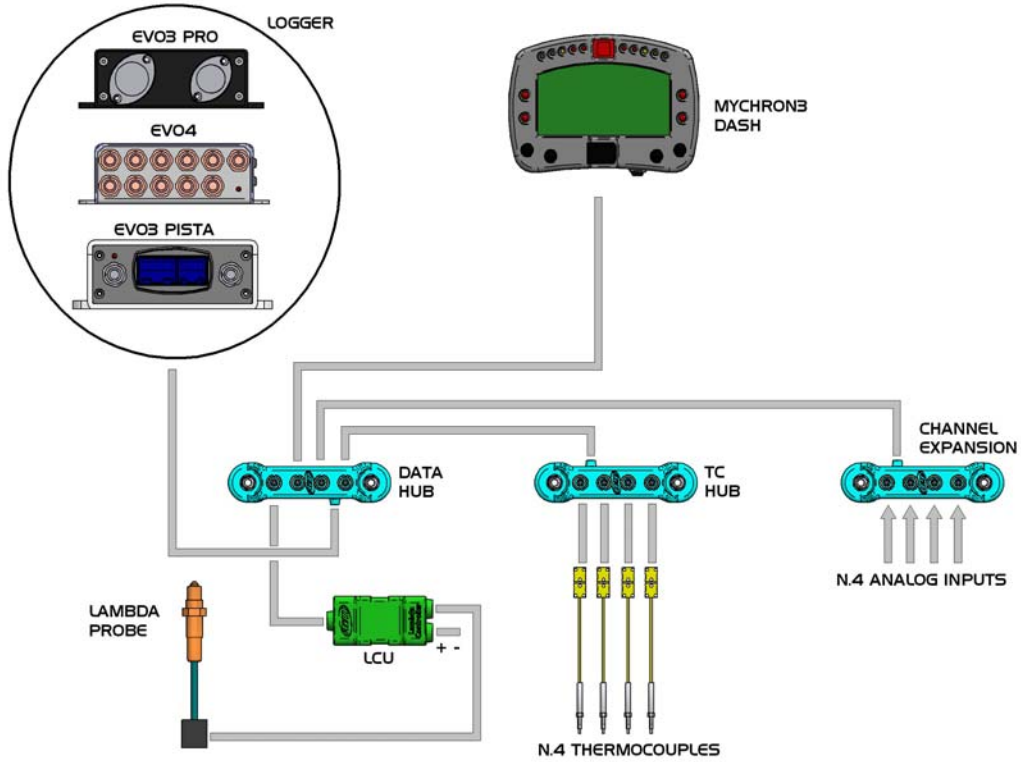
Press “**MEM/OK**” to enter data recall.

- “>>”, “**MENU/**<<” ARROW BUTTONS, allows to scroll between all test laps of the session.
- “**VIEW**” BUTTON allows to see max RPM digital value in the selected lap. Pages are shown in loop, to say that from the last page it switches again to the first one.
- “**MEM**” BUTTON allows to see max and min values of the selected lap for all channels shown by **MyChron3 Dash**.

NOTE: transmitting a new configuration to the logger all recorded data are deleted.

Chapter 4 – MyChron3 Dash connection scheme

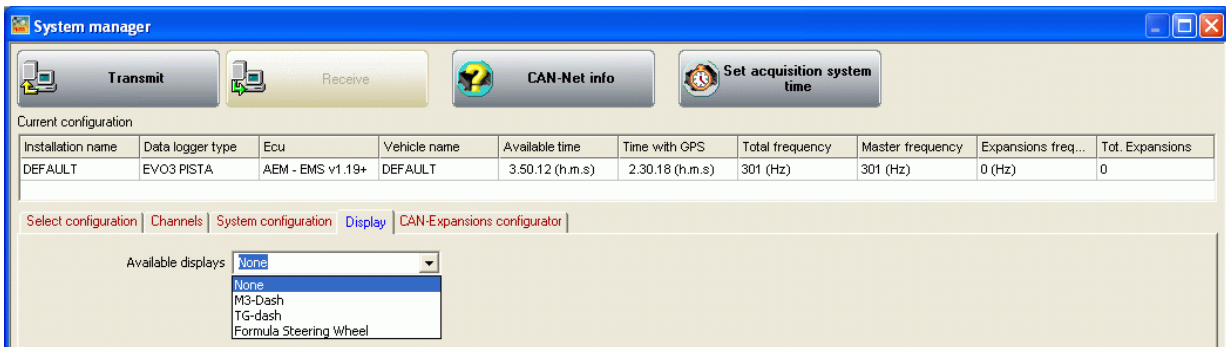
Here below is a connection scheme between **MyChron3 Dash** and **AIM** loggers.



Chapter 5 – MyChron3 Dash configuration

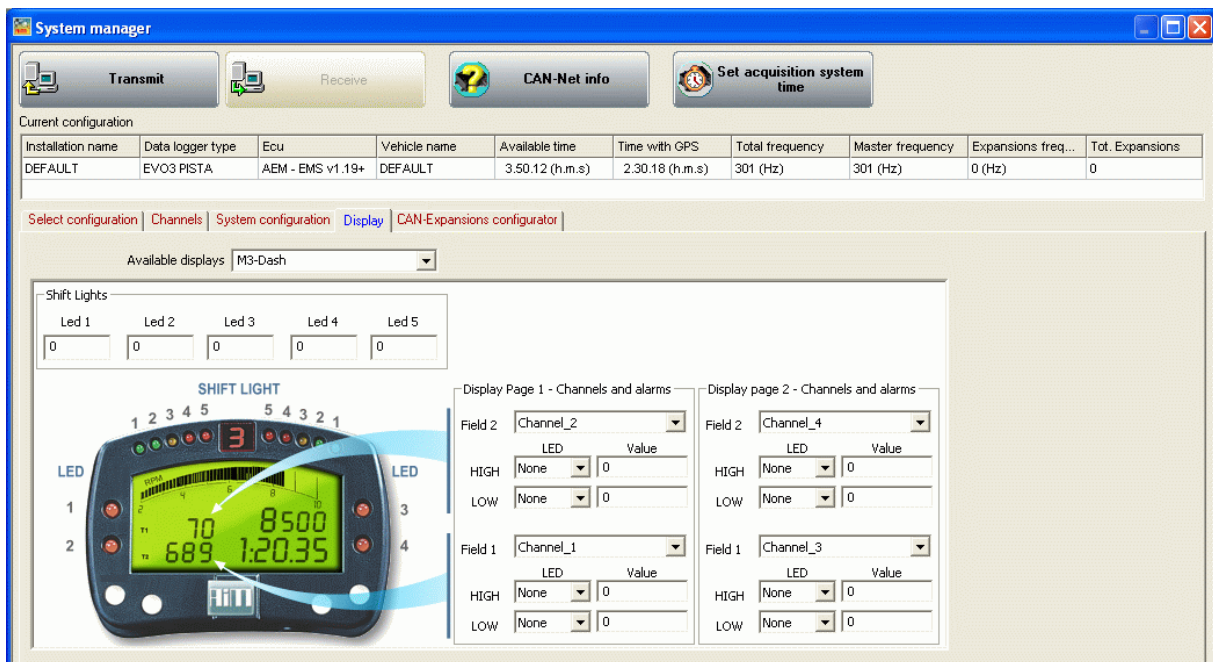
To configure **MyChron3 Dash**:

- Run **RS2** software.
- Select the logger **MyChron3 Dash** is connected to pressing the corresponding button on **RS2** vertical keyboard.
- Activate “display” layer. This window appears:



- Click on “Available displays” drop down menu and select M3-Dash.

This configuration window appears:

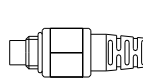
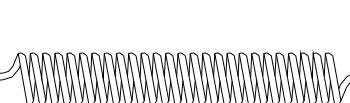
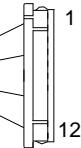
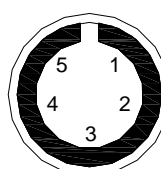
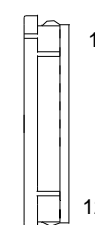



Through this window it is possible to set:

- Shift lights values.
- Channels and alarm 1 and 2 of pages 1 and 2; this means that it is possible to set the four channels displayed (two by two) by **MyChron3 Dash** and link their Max and Min threshold values (Max/Min cases) to two led that switches on when these threshold values are reached.

NOTE: configuration of “RPM scale”, “Split Number” and “Speed” setting (to show in data visualization), is made through “System Configuration” layer.

Appendix – Connection cable

N.rev	Nota sulla revisione	Data	Firma	Controllo																				
<p>MyChron 3 Dash cable for DaVid Stand Alone, EVO3 Pro/Pista, EVO4</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Binder 712 - 5 pins male connector</p> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  <p>Hirose - 12 pins female connector</p> </div> </div>																								
<p>Cable connection on Binder connector</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 20%;">  <p>Binder 712 - 5 pins male connector Solder termination view</p> </div> <div style="width: 50%; text-align: center;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">1</td> <td style="width: 40%; border-bottom: 1px solid black;">WHITE</td> <td style="width: 30%; border-bottom: 1px solid black;">CAN 0+</td> <td style="width: 5%; text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="border-bottom: 1px solid black;">BROWN</td> <td style="border-bottom: 1px solid black;">GND</td> <td style="text-align: center;">12</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="border-bottom: 1px solid black;">YELLOW</td> <td style="border-bottom: 1px solid black;">+Vb</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="border-bottom: 1px solid black;">GREEN</td> <td style="border-bottom: 1px solid black;">CAN 0-</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="border-bottom: 1px solid black;">n.c.</td> <td></td> <td></td> </tr> </table> </div> <div style="width: 20%;">  <p>Hirose - 12 pins female connector pinout top view</p> </div> </div>					1	WHITE	CAN 0+	9	2	BROWN	GND	12	3	YELLOW	+Vb	10	4	GREEN	CAN 0-	8	5	n.c.		
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Rif.	Quantità	Titolo/Nome, materiale		N. articolo/Riferimento																				
Progettato da	Controllato da	Approvato da - Data	Nome file	Data 20/04/2005																				
		Titolo / Nome Cavo MyChron3 Dash per DaVid Stand Alone, EVO3 Pro/Pista, EVO4																						
		Numero disegno 04.555.08	Modifica	Foglio 1 of 1																				