

TG DASH
User manual



Racing Data Power

To TG Dash owner

TG Dash is a compact and complete logger that allows to constantly monitor RPM, speed, lap and split times.

Moreover **TG Dash** is configurable thanks to the powerful **Race Studio 2** software.

TG Dash is the visor that, thanks to the graphic backlighted display, allows to visualize all data sampled by **EVO3 Pro/Pista** and **EVO4**.

Thanks for choosing an AIM product!

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Chapter 1 – TG Dash



This display is equipped with an easy and intuitive Menu with **different setting and view options**.

Thanks to **TG Dash** it will be possible to instantaneously visualize:

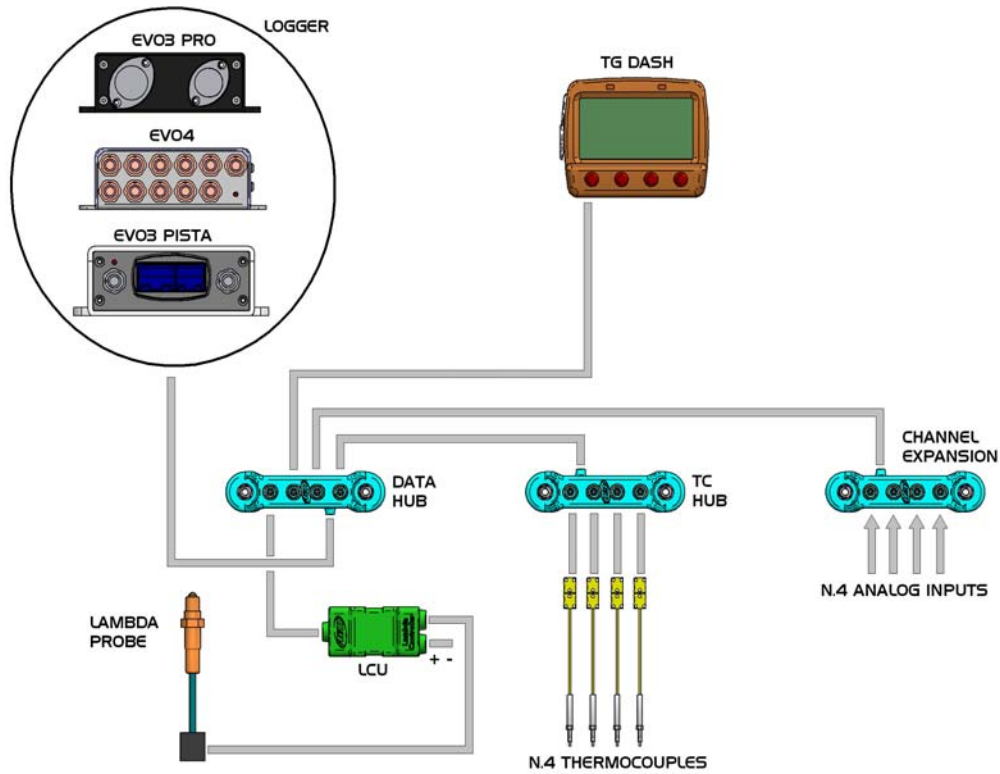
- Lap time and running lap number;
- Speed and digital RPM value;
- Up to 6 split times;
- RPM graph bar.

In data recall mode it is possible to see:

- Detailed summary of each lap and related splits;
- Histogram to compare more laps;
- Speed and RPM max values of each lap.

Chapter 2 – Connecting TG Dash to EVO

Here below is a connection scheme of **TG Dash** and: **Evo3 Pro/Pista** or **Evo4**.



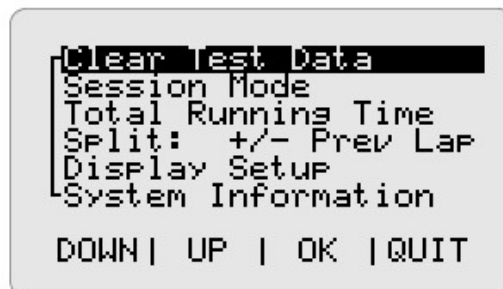
Chapter 3 – Menu Function

TG Dash for EVO3 Pro/Pista and EVO4 (from here onward EVO) has been designed to satisfy any pilot needs. It is equipped with an easy and intuitive menu, that can be managed with only four buttons.

To enter the Menu press twice the red circled button in the figure below.



This screen appears:



It is possible to scroll the menu using the buttons in correspondence of UP and DOWN. To select a Menu option scroll until the desired one and press the button in correspondence of "OK".

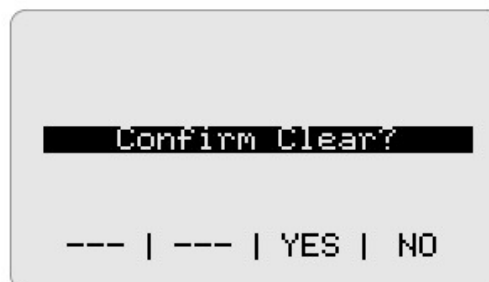
To quit menu function press the button in correspondence of "QUIT".

3.1 - Description of Menu functions

Here below all menu options are described in sequence:

3.1.1 – Clear test data

Allows to delete stored data.



Press "YES" to clear and "NO" to quit without clearing.

3.1.2 – Session Mode

It sets the visualization of the most useful data during race.
Available options are: **Lap counter**, **Qualify** and **Race**.

Lap counter: the display shows incremental lap number and rolling time up to the end of the lap.



Qualify: shows the remaining time to the end of the session. To set it fill in the session duration in minutes using “DEC-“, “INC+” buttons. Press OK and then “Start” to start countdown.

Press “Canc” button to quit without saving.

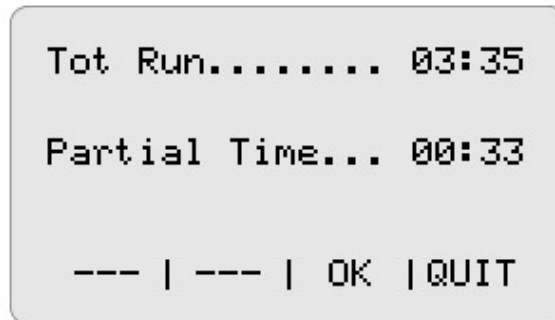


Race shows the number of remaining laps to the end of the session. To set it fill in the session number of laps using “DEC-“, “INC+” buttons and press “OK” button.



3.1.3 – Total Running Time

This function allows to see total and partial logger acquisition time. Entering the sub-menu, this screen appears:

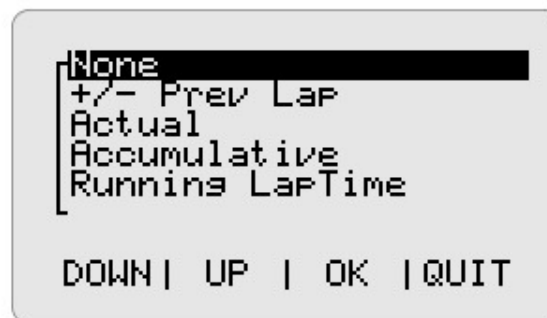


Tot. Run: shows logger total acquisition time from the first start up. It is not possible to reset this counter.

Partial Time: shows the logger partial acquisition time since the last deletion. This counter can be reset pressing the button in correspondence of “OK” and then – when “Confirm Clear” appears – the button in correspondence of “YES”.

3.1.4 – Split

Once entered the sub-menu it is possible to set different split visualization modes as shown here below:



None: no split but only lap time is shown .

+/- Prev lap: shows the gap between this split time and the previous lap one.

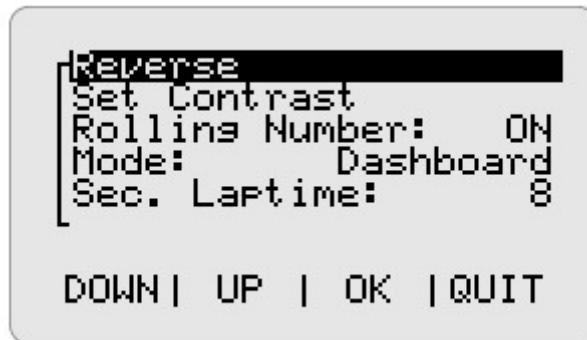
Actual: shows actual split time.

Accumulative: shows the time elapsed from start/finish line to the last split.

Running Laptime: shows current lap split times. In case more splits are enabled the display shows in the central field the splits number, top on the right rolling seconds and top on the left progressive laps number.

3.1.5 – Display setup

In Display Setup sub-menu it is possible to set **TG Dash** display graphics.



Reverse: this function allows to reverse display colours from positive to negative. Normally the display shows black characters on a white background. Press the button in correspondence of OK to enable reversion.

Set Contrast: this function allows to increase or decrease screen contrast using a -5 (max contrast) +5 (min contrast) range of values. Use the buttons in correspondence of: "DEC-" and "INC+." to increase/decrease contrast.



Rolling number: this setting allows to show lap time using dynamic screens (rolling). To choose this function set "ON" through "OK" button.

Mode: this function allows to select track data screen visualization mode. Press the button in correspondence of "OK" to select the desired mode.

Dashboard: allows to have the page showing speed RPM and RPM graph bar always on top. Lap time page is shown full screen only when a lap time is recorded. After a custom fixed time the display comes back to the main page (refer to **Sec. Laptimer** paragraph for further information on this sub-menu option).

Laptimer: allows to always show lap time in full screen mode. The display continues showing the same page also after having recorded a lap signal.

Sec. Laptime: this function allows to set the visualization time of “Lap time” in Dashboard mode (see below).



To set this function press the buttons in correspondence of: "DEC-" and "INC+", buttons and then press the button in correspondence of "OK."

3.1.6 – System information



This function shows the information concerning the logger:

- Logger name (TG DASH)
- Firmware version (21.03)
- Logger serial number (0001500114).

Chapter 4 – On track visualization

Through the visualization of track data it is possible to keep always under control engine and driving performances.

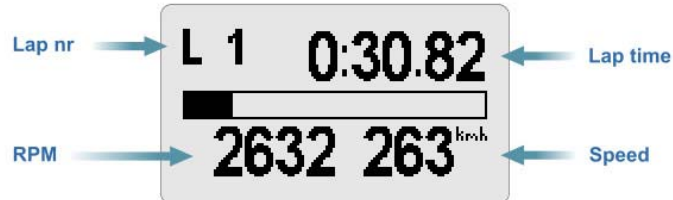
Few seconds after logger switch up it is possible to see one of the screens shown here below (according to fixed setting).

Lap timer visualization mode: allows to constantly see lap time page; the display continues showing the same page also after a lap signal detection.



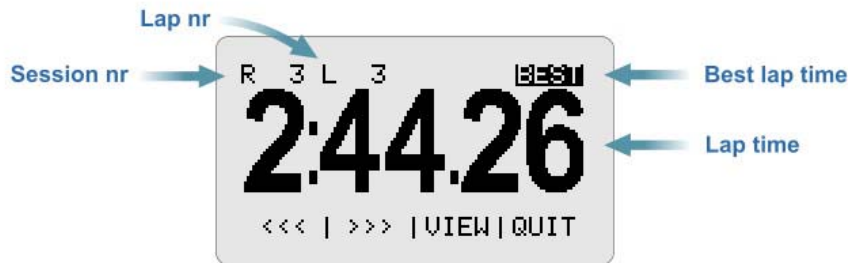
Dashboard visualization mode: allows to show more data pages at the same time, keeping as starting page the one showing speed, RPM and the related graph bar.

Lap time page is shown full screen when a lap signal is detected. Then, after a time fixed by the user (see paragraph 3.1.5 under paragraph Sec. Laptime), the display comes back to the page set as main one. It is always possible to switch from one window to the other pressing "ON" button.



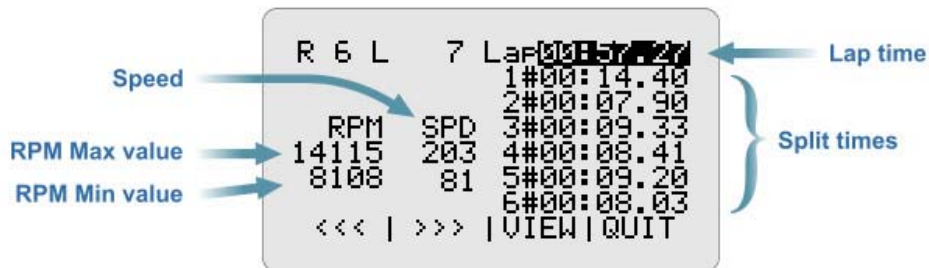
Chapter 5 – Data recall

To recall stored data press MEM button. The display shows best lap time page with best lap time full screen, best written top on the right and session (marked R=Run) and lap (marked L=Lap) number top on the left, as shown here below.



Using the buttons in correspondence of “<<<” and “>>>” it is possible to show all lap times belonging to different sessions too.

Pressing the button in correspondence of “View” the system shows a summary page of the selected lap: RPM min and max value, speed, lap and split times (if the system has been configured to record split times).



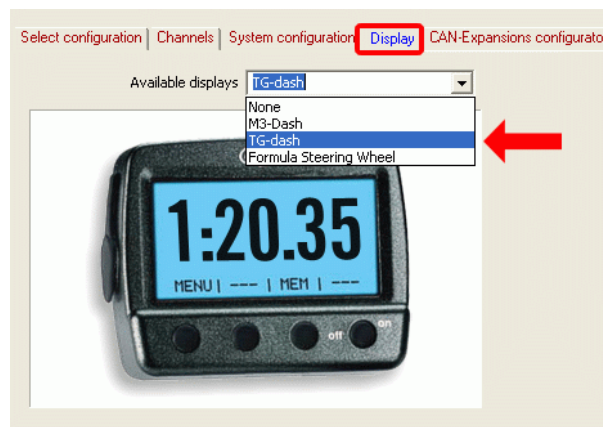
It is moreover possible to see session lap times as histogram but only if the session is made of more than 5 laps.



Chapter 6 – Configuring TG Dash for EVO

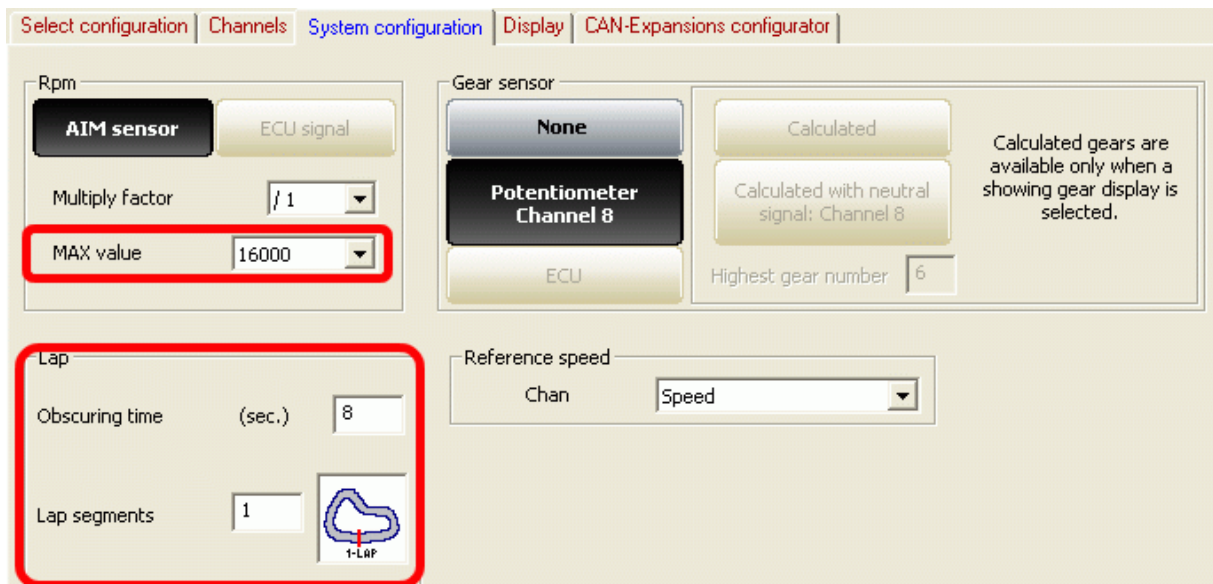
To configure **TG Dash** for **EVO**:

- Run Race Studio 2 software
- Press Aim System Manager button
- Select the logger: **EVO3 Pro/Pista** or **EVO4** through the corresponding button on the vertical keyboard
- Press Go to button
- Select display layer
- Select TG Dash in the “Available displays” drop down menu. This window appears.

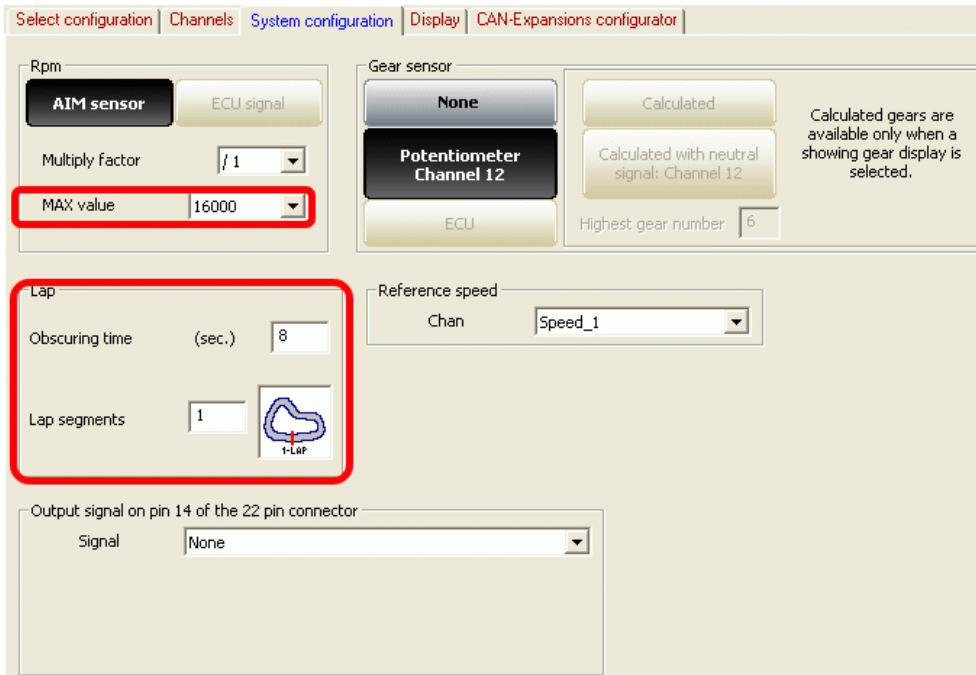


- Select “System Configuration Layer”.

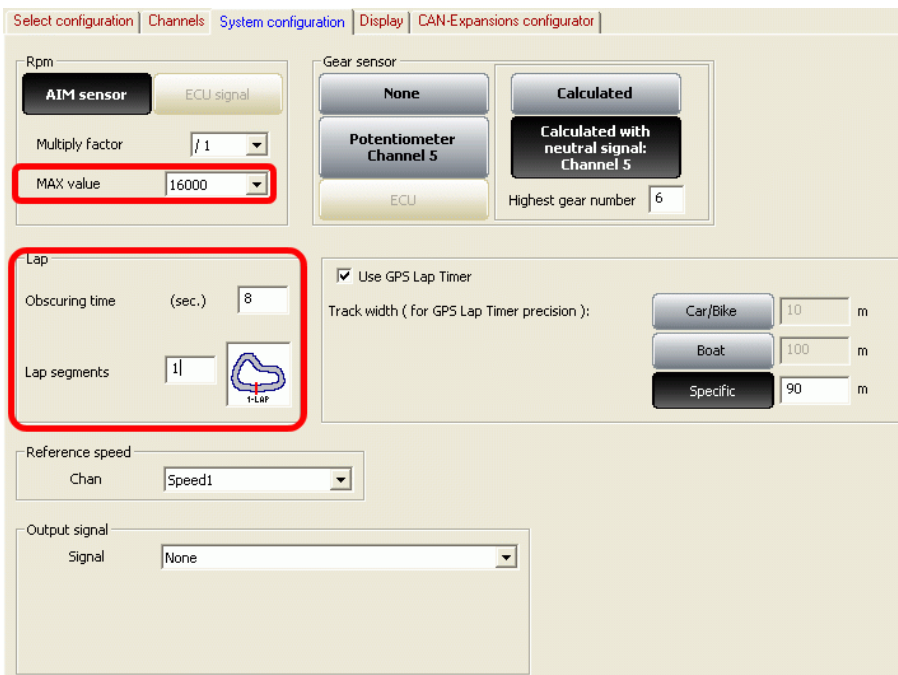
The system shows system configuration window. Its layout depends on the logger to configure. In case of an **EVO3 Pista** this window appears.



In case of an **EVO3 Pro** this window appears.



In case of an **EVO4** this window appears.

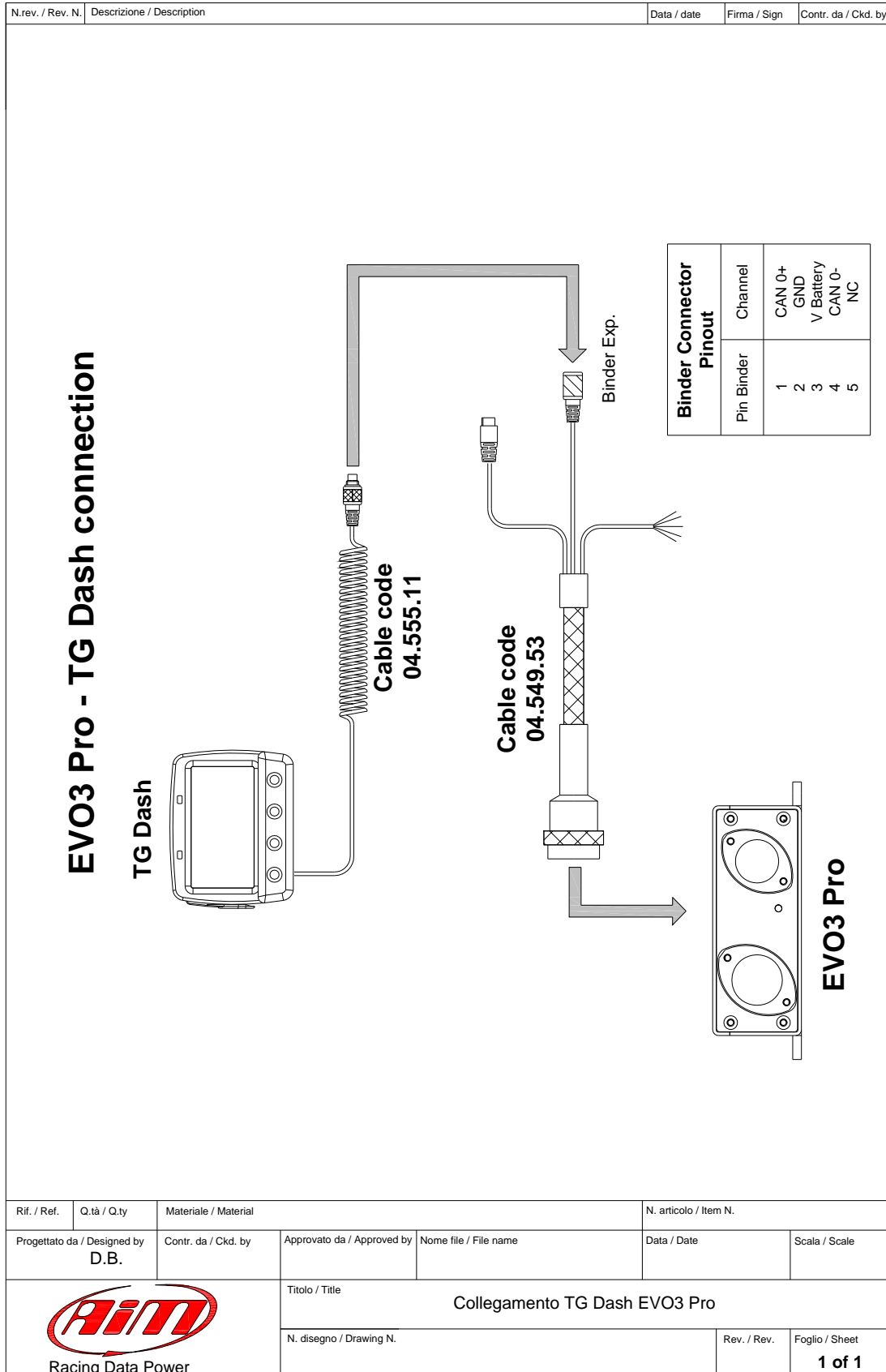


Filling in “Lap” and “Rpm” panel, highlighted in all the images above, it is possible to configure:

- Obscuring time,
- Up to 6 splits,
- RPM max value in a 4000–25000 range values.

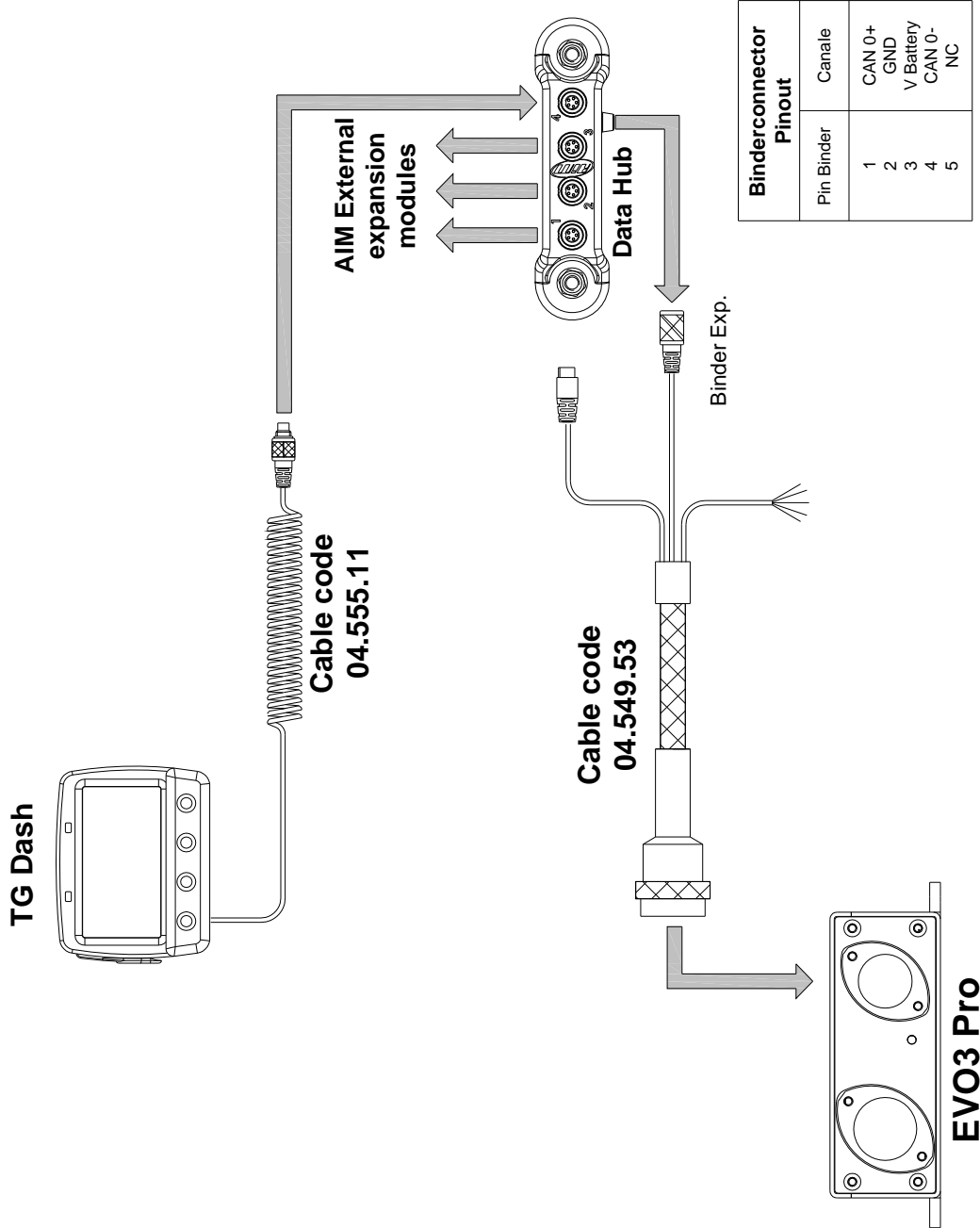
When the configuration is set it is necessary to transmit it to the logger (refer to Race Studio Configuration user manual for further information).


Appendix – Technical drawings



N.rev. / Rev. N.	Descrizione / Description	Data / date	Firma / Sign	Contr. da / Ckd. by
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EVO3 Pro - TG Dash - Data Hub connection

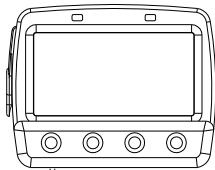


Rif. / Ref.	Q.tà / Q.ty	Materiale / Material	N. articolo / Item N.	
Progettato da / Designed by D.B.	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date
		Titolo / Title Collegamento EVO3 Pro - TG Dash - Data Hub		
		N. disegno / Drawing N.	Rev. / Rev.	Foglio / Sheet 1 of 1

N.rev. / Rev. N.	Descrizione / Description	Data / date	Firma / Sign	Contr. da / Ckd. by
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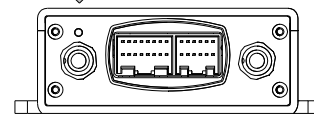
EVO3 Pista - TG Dash connection

TG Dash




Cable code
04.555.11

Binder 712 female connector pinout	
Pin Binder	Channel
1	CAN 0+
2	GND
3	V battery
4	CAN 0-
5	NC

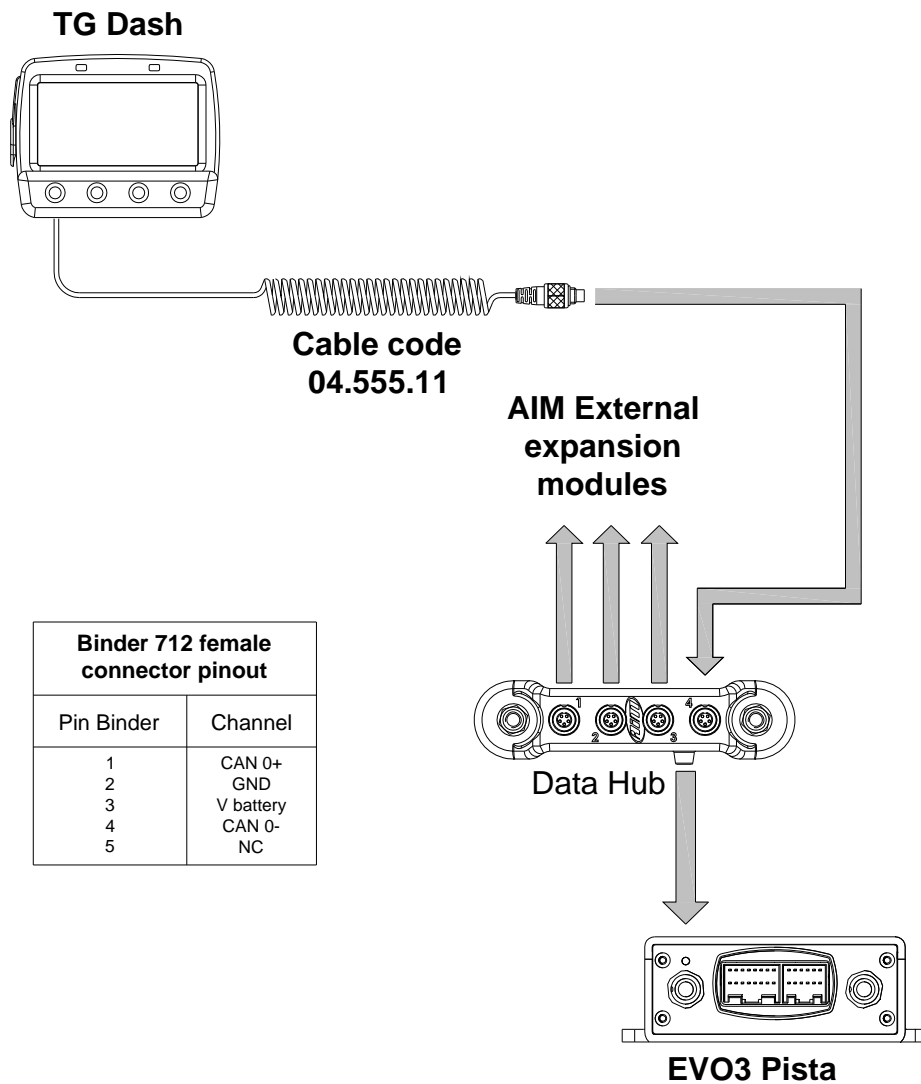


EVO3 Pista


Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.		
Progettato da / Designed by D.B.		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
 Racing Data Power		Titolo / Title Collegamento TG Dash EVO3 Pista				
		N. disegno / Drawing N.		Rev. / Rev.	Foglio / Sheet 1 di 1	

N.rev. / Rev. N.	Descrizione / Description	Data / date	Firma / Sign	Contr. da / Ckd. by
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EVO3 Pista - TG Dash - Data Hub connection

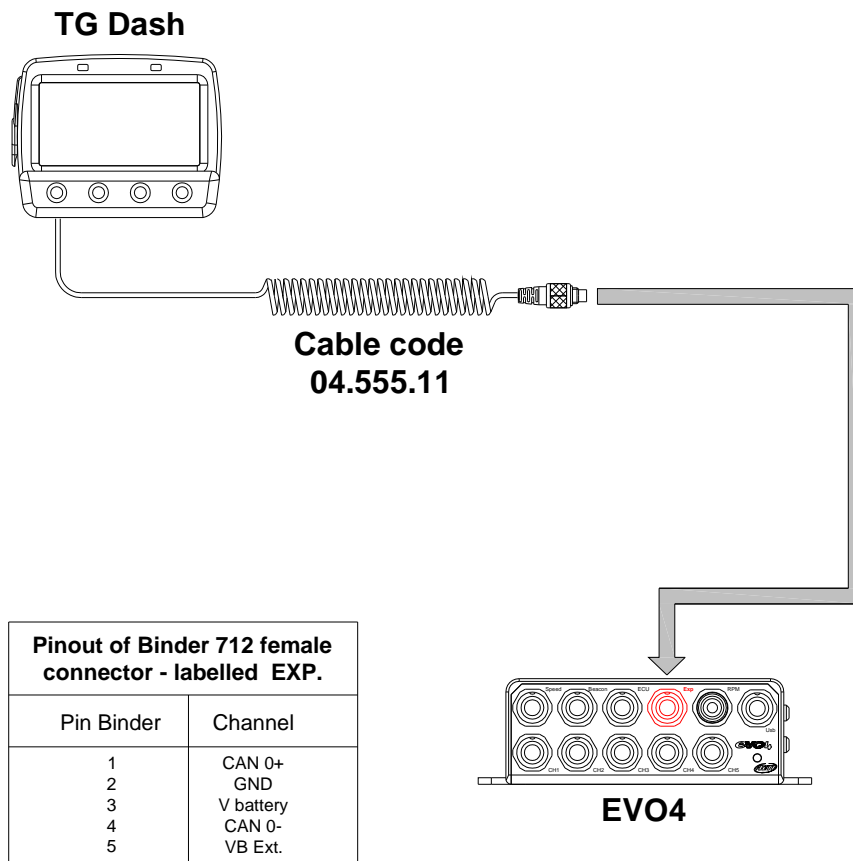



Binder 712 female connector pinout	
Pin Binder	Channel
1	CAN 0+
2	GND
3	V battery
4	CAN 0-
5	NC

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.	
Progettato da / Designed by D.B.	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title Collegamento TG Dash EVO3 Pista			
		N. disegno / Drawing N.		Rev. / Rev.	Foglio / Sheet 1 of 1

N.rev. / Rev. N.	Descrizione / Description	Data / date	Firma / Sign	Contr. da / Ckd. by
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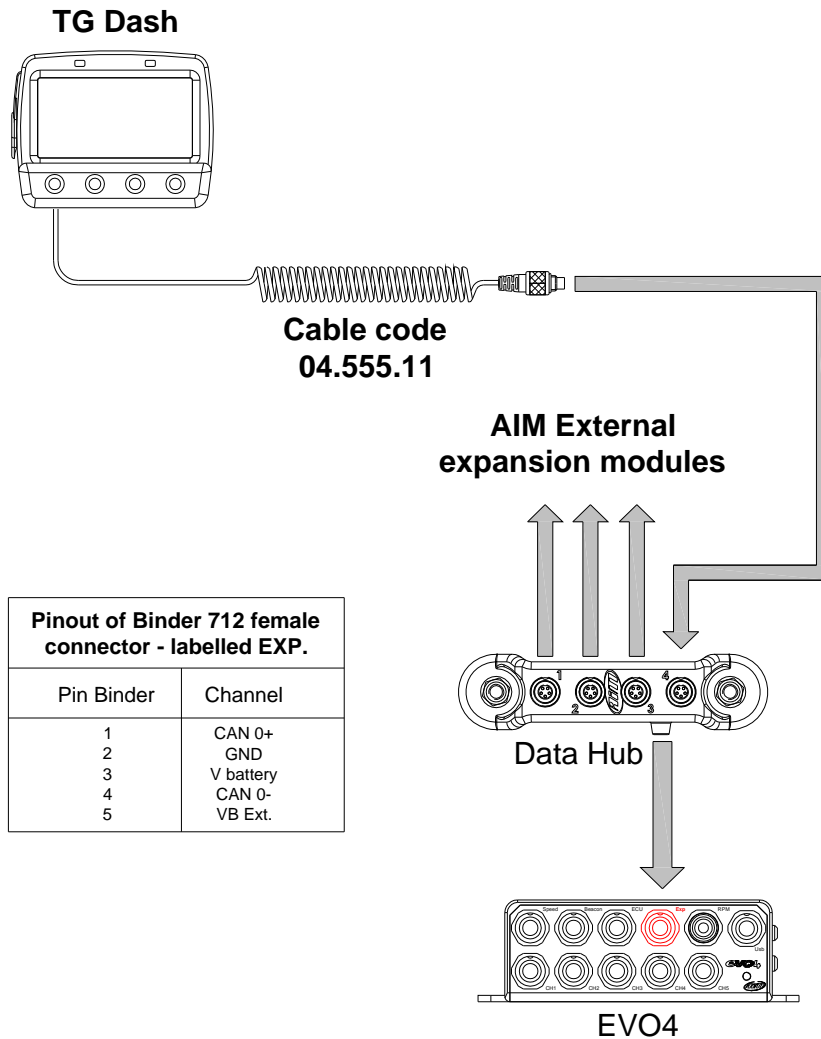
EVO4 - TG Dash connection




Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.		
Progettato da / Designed by D.B.		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
			Titolo / Title Collegamento TG Dash - EVO4			
			N. disegno / Drawing N.	Rev. / Rev.	Foglio / Sheet 1 of 1	

N.rev. / Rev. N.	Descrizione / Description	Data / date	Firma / Sign	Contr. da / Ckd. by
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EVO4 - TG Dash - Data Hub connection



Rif. / Ref.	Q.tà / Q.ty	Materiale / Material	N. articolo / Item N.	
Progettato da / Designed by D.B.	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date
		Titolo / Title Collegamento TG Dash - EVO4 - Data hub		
		N. disegno / Drawing N.	Rev. / Rev.	Foglio / Sheet 1 of 1