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INFORMATIONS FOR USER OR RIDERS

ECU HW : MKE7

ECU FW : MOTO2CEV

P.N. :

Document Release : 1.1 – 15-02-2022

This quick reference document is drawn up with the aim to be simple and fast for user consultation and assist the user or Rider during the use of the system fitted in the Bike.

Mectronik is the supplier company of the Electronic Management for the European Moto2 Championship class, and the target of this document is to be a reference in case of doubt. This mean also that the responsibility of the installation, the use and the damages about the not proper using is always to consider the user. This is a product design and built for the motorsport, without any homologation, warranty, certifications and so on. The company will be never responsibility for any type of the result, from technical and sporting point of view.

The electronic devices used like Ecu, dashboard and logger are freely programmable with some restrictions requested by the organization. So, all indication below are referred to the configurations supply with the devices, like a good starting point for a race or test.

ALL DEVICES ARE INTENDED FOR RACING USE ONLY. IT IS FORBIDDEN TO USE THE PRODUCTS IN THE PUBLIC ROADS. CONTACT YOUR LOCAL ESTABLISHMENT, FOR THE LEGAL RESTRICTIONS, AND THE USE LIMITATIONS.

Moto2 European Championship

FIM JuniorGP World Championship

REFERENCE

ECU MKE7

VERSION : MOTO2CEV

FW VERSION : 1.21.xx or later

LOGGER

VERSION : Stick Logger V2 marked M2 ™

FW VERSION : S2CFXG6_1V3OF_105

CONFIGURATION : LG-M2-CEV_2022_SR_Mec_S2CFXG6_1V3OF_105_09-Feb-2022

DASHBOARD

VERSION : MIDIDASH

FW VERSION : S2CFXG6_1V3OF_105

CONFIGURATION : DI_Midi-12_M2_09_Feb_2022_FW_R_69

HANDLE BAR SWITCHES FUNCTIONS

RIGHT SIDE

The Red button is used as the ENGINE KILL . The button don't switch off all devices in the bike, but only the ecu and the engine actuators. The dashboard, the logger remain powered, and the X2 transponder also.

For a complete Power OFF of the System, please to use the MAIN ON-OFF LEVER SWITICH.

The correct sequence for the engine kill is always to switch-off the red button before and after it, the Main Switch.

LEFT SIDE

BUTTON	FUNCTION @ ENGINE ON	FUNCTION @ ENGINE OFF	PRESS TIME	NOTE :
GREEN	NONE	AUTOZERO OF FRONT SUSPENSION	3 Sec	
BLACK	LAUNCH CTRL	NONE	1 Sec	Enabled only one time, and with Speed=0 . After the exit to the strategy required a ECU OFF-ON cycle to be enabled
YELLOW	WORKING MODE	WORKING MODE	100mSec	From 0 TO 3
BLUE	PIT LIMIT	NONE	1 Sec	One Press ON - One press OFF. If rider open the TPS>60° the strategy goes to OFF
RED	NONE	AUTOZERO OF REAR SUSPENSION	3 Sec	

This is the configuration inside the ecus supplied, to be intended such a "Starting Point". Any User can re-setting and checking its with the MeCal Software for a proper customization of the functions

LOGGER

The logger supplied by Mectronik for the system is ready to use. The device has some channels and functions programmable, but the main parameters are locked and can't be change. Below you can find the list of the possible setting by the user :

Logger Name

Recording Support (default is settled for data recording to the Stick Memory)

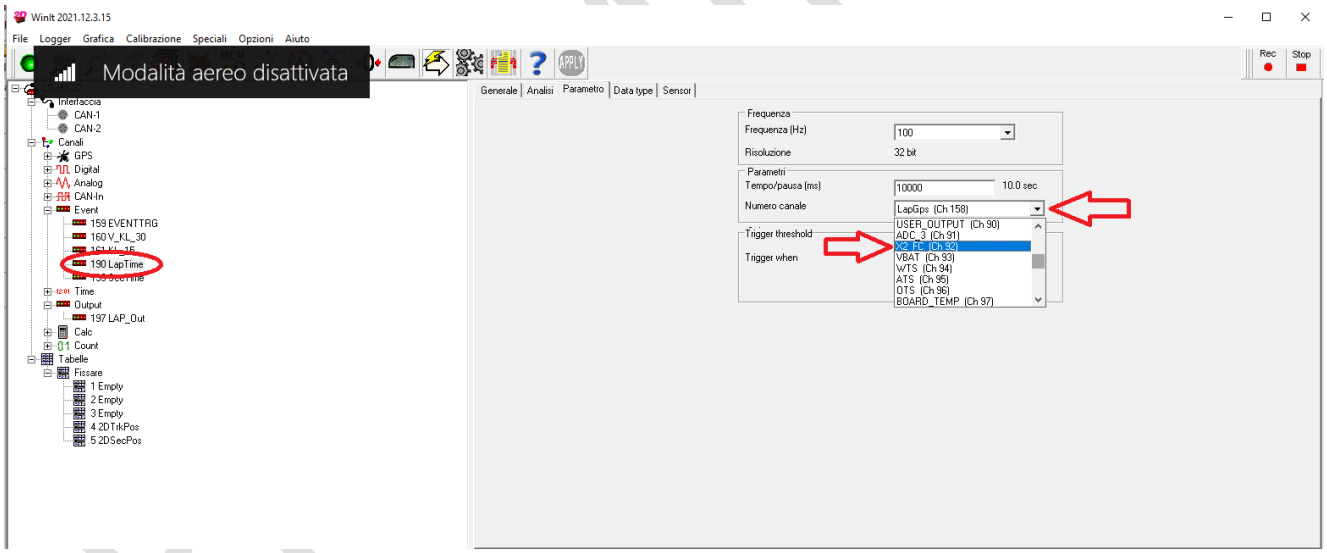
Trigger event for recording (default it's ON 5 sec after the switching-ON)

LapTime event (default is setting for to use the GPS track finish line)

SecTime event (default is not settled)

Table for Sector time recognition

FOR TO CHANGE THE LAP TIME EVENT FROM GPS TO X2, IS NECESSARY MOVE THE CHANNEL SOURCE LIKE SHOWN IN THE PICTURE. PRESS ALWAYS APPLY AFTER ANY CHANGES



<u>ALWAYS BE SURE to use the last version of the WinIt before connecting to the 2D devices. the 2021.12.3.15 or later is required. Please refer to the 2D Datarecording user manual for any other question</u>

DASHBOARD

The Dashboard supplied by Mectronik for the system is ready to use. For the upgrade of the old units used in the past, please to contact : support@mectronik.com . Any user can customize the Dashboard functions or pages, alarms and so on, but we suggest to don't change anything, because a good skilling about the 2D system configuration is required for any changing. For this reason, a backup copy of the dahsboard configuration is suggested before to change it. The Pages configuration are :

Page 5 – BOX -> Always shown if the Vehicle speed = 0

All informations required by the technicians in the BOX are present . The LED BAR shown the RPM Value for a correct Warmup

Page 4 – TRACK -> Always shown if the Vehicle speed > 0

The values showed are referred to the Engine temperature, the Gear engaged, the Last Laptime, The Working Mode and the Gap Time

Page 3 – FINISHLINE -> Shown for 10 second when a new lap time is calculated

The values showed are referred to the Engine temperature, the Gear engaged, the Last Laptime, The Working Mode and the Best Laptime in memory

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Page 2 – TYRES INFORMATIONS -> Shown if the TPMS system is fitted to the Bike (alternative view)

The values showed are referred to the Tyres temperature, and the Tyres Pressure

The wiring adaptor available from Mectronik for the connection between wiring harness and logger/Dashboard is ready for a plug & play connection to the 2D TPMS system

TRICK

When a page is shown, a long press time to the dashboard button will change the visualization from "channel value" to "channel name".

ALARM & STATE

In the Dashboard configuration are set the following alarm :

Channel checked	Main Condition	Second condition	Blink Alarm	NOTE
WTS	< 70 °C	TPS > 50%	NO	
WTS	> 98 °C	ENGINE RUN	YES	Alarm max time 1min
OPS	< 0,8 Bar	ENGINE RUN	YES	Alarm without time limit
VBAT	<12.0	RPM > 3000	NO	Alarm max time 10sec
DROP OFF	Bike Dropoff event	None	YES	Alarm without time limit
RBW ERR	Rbw error in the system	None	YES	Alarm without time limit
PIT LIMIT	Strategy activated	none	YES	Alarm without time limit
LAUNCH CTRL	Strategy activated	none	YES	Alarm without time limit
GAP SLOW	Rider is slower	none	NO	Ready but to be activated by user
GAP FAST	Rider is slower	none	NO	Ready but to be activated by user

A press to the Dashboard button will delete immediately the alarm state. Please to refer to the User manual of the Dashboard for a complete info about the configurations