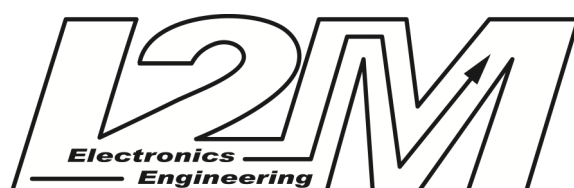


CHROME Mectronik WSSP NEXT GEN (LITE-PLUS2-PRO2)



The purpose of this manual is to provide specific information for the application of the Chrome Lite, Plus2, and Pro2 dashboards on Next Generation motorcycles equipped with a Mectronik control unit.

Installation

Regarding installation, there is no plug-and-play kit as the wiring harness used may differ depending on the manufacturer. On the Yamaha R9, however, the GYTR wiring harness directly includes the connector for plug-and-play connection to our Chrome Lite dashboard.

Generally, the simplest approach is to use our main wiring harness, which also provides direct access to the USB and GPS connections, and then simply connect the three necessary connections: 12V under ignition, CAN High, and CAN Low.

The 12V under ignition is located on our 12-way Multilock connector, specifically the orange wire. The CAN Bus is located on the dashboard's 20-way connector for the Chrome Lite and directly on the 12-way Multilock connector for the Chrome Plus2 and Pro2. For connector pinouts, please refer to the Chrome Lite and Chrome Pro2/Plus2 manuals, which can be downloaded from our download page.

Once the hardware installation is complete, you must enter the options menu and select the "Mectronik NG 2026" motorcycle.

External Sensors

By choosing the NG motorcycle, all available channels on Chrome Lite will already be configured, while on Plus2 and Pro2, new CAN bus channels can be added. **WARNING:** When choosing the NG configuration, analog sensors such as potentiometers or brake pressure sensors **MUST NOT** be connected to the Chrome, but to the control unit. The control unit will read all the sensors and send their values via CAN bus to Chrome, which will only act as a display. Therefore, the configurations (minimum and maximum values) of each channel **MUST NOT** be changed because they are configured to be compatible with the values sent by the control unit. Likewise, any sensor zeroing must be done via the control unit, not Chrome. If the parameters are accidentally changed or an involuntary zero is performed from Chrome, it will be necessary to reset the settings in the options menu and then reset the NG bike.

Acquired Channels

Chrome has 3 digital channels (RPM/SPD1/SPD2), 8 analog inputs and 4 others additional channels (0 on Lite model, 2 on Plus and 4 on PRO) and up to 10 multiplexed channels (their sample frequency is 1/10 of the one chosen in the acquisition data menu).

Some of these channels are reserved on WSS Mectronik NG 2026:

RPM	Engine Rounds per Minute
SPD1	Rear Speed
SPD2	Front Speed

ANALOG1	TPSA - TPS Position
ANALOG2	Fork
ANALOG3	Shock
ANALOG4	Front Break Pressure
ANALOG5	Lambda 1

ANALOG6	Rear Break Pressure
ANALOG7	GAS
ANALOG8	OPS - Engine Oil Pressure
EXT1	FPS - Fuel Pressure (on Plus, Pro and Pro2-Plus2)
EXT2	LoadCell (on Plus, Pro and Pro2-Plus2)
EXT3	TPS B (on Pro and Pro2-Plus2)
EXT4	Lambda 2 (on Pro and Pro2-Plus2)
MULTI1	WTS - Water Temperature
MULTI2	OTS - Oil Temperature
MULTI3	Battery Level
MULTI4	Air Temperature
MULTI5	BAP - Barometric Pressure
MULTI6	MAP - Intake Pressure
MULTI7	Gear in use
MULTI8	DropOff Strategy state
MULTI9	Drum Position Voltage
MULTI10	WorkMode

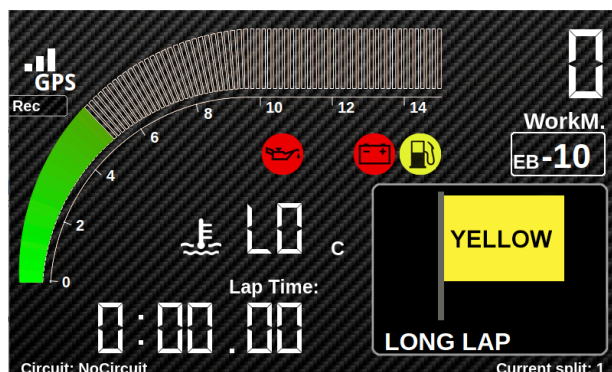
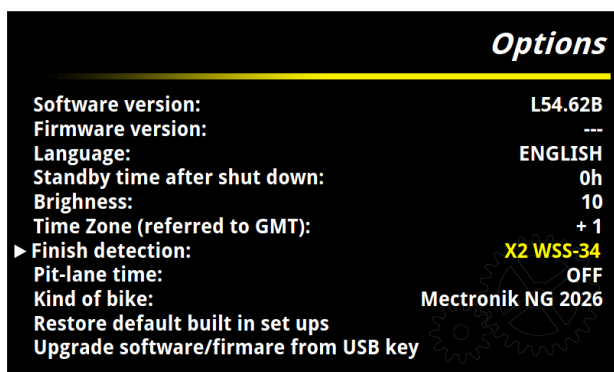
By choosing bike model in Options Menu, all parameters related to those channels are already set. Chrome Pro2-Plus2 has 128 Can Bus channels, fully customizable. Some of them, will be defaulted as follows when choosing WSS Mectronik NG 2026.

CAN1	Drum Position Voltage
CAN2	Cut level
CAN3	Rider demand
CAN4	BAP - Pressione Barometrica
CAN5	Speed vehicle - Bike Speed (can be rebuilt from gear-rpm)
CAN6	Torque rear - Rear Wheel Torque
CAN7	Lambda 1 corr.
CAN8	Lambda 2 corr.
CAN9	Lambda 3 corr.
CAN10	Lambda 4 corr.
CAN9	Vref1 - Sensor Power Supply 1
CAN10	Vref2 - Sensor Power Supply 2
CAN11	Lean angle - Bike Lean Angle
CAN12	Cut strategy
CAN13	Board Temp - ECU Temperature
CAN14	Workmode
CAN15	Lambda 3
CAN16	Lambda 4

Timing

By selecting the NG bike, the Chrome can manage timing and Dorna communications via the X2 transponder. To enable this feature, go to the options menu and select your preferred timing mode. The function is visible in the image. The available options are:

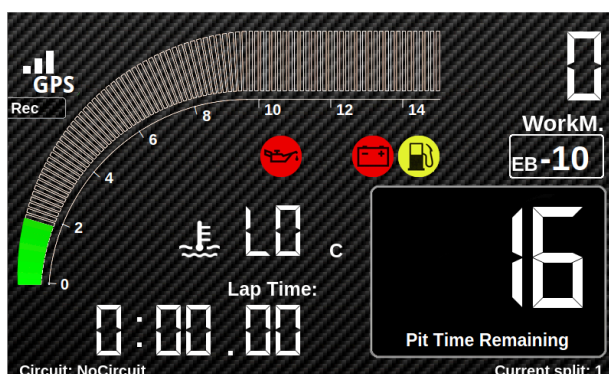
- **GPS:** The Chrome ignores information from the X2 and relies exclusively on GPS tracking. For its use, please refer to the Chrome manual and the specific FAQ on our FAQ page for adding new circuits.
- **X2 WSS-30/X2 WSS-34:** In this case, the entire timing is based on signals from the X2. The finish line with ID 30 or 34 is read depending on the selected mode, as well as the various split times on the circuit. It will be possible to use all the standard Chrome functions as with the GPS option, such as calculating the best lap, the ideal lap, the summary of today's performance, or the ability to view the difference from the best and last times for each split time and for the complete lap, using the Best-Lap-Gap and Last-Lap-Gap functions, selectable in the view menu. This mode also manages flag-related communications or messages from Dorna. When a communication is present, the main screen will look like the image below.
- **GPS-X2 Flag:** in this case, the timing is managed by GPS as in GPS mode, but the communications from X2 are managed.



Flag to Flag

In the options menu, you can enable another function reserved for the NG bike with the X2 transponder. You can enable the *Pit Lane Time* function with a value between 1 and 120 seconds. Once you enter the pit lane, the countdown shown in the figure will appear, starting from the set value.

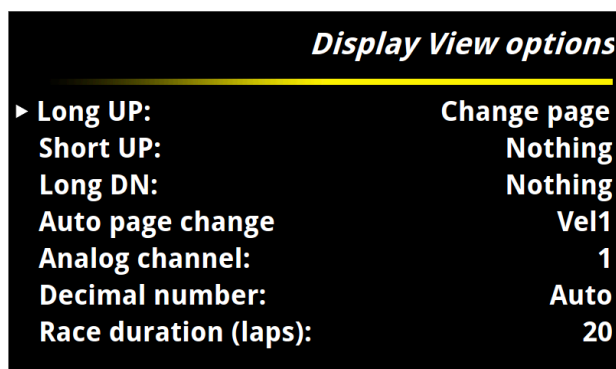
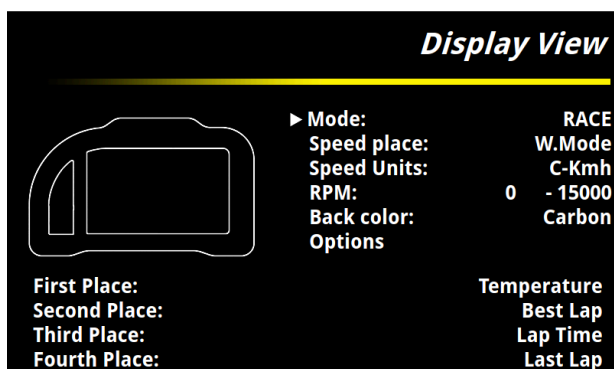
The window will automatically disappear as soon as the countdown reaches zero.



Display

The on-screen display follows the general rules indicated in the Chrome manual. For the NG motorcycle, the Engine Brake trimmer value is visible as an additional function.

The *Display View* menu allows you to configure some specific settings for the NG motorcycle.

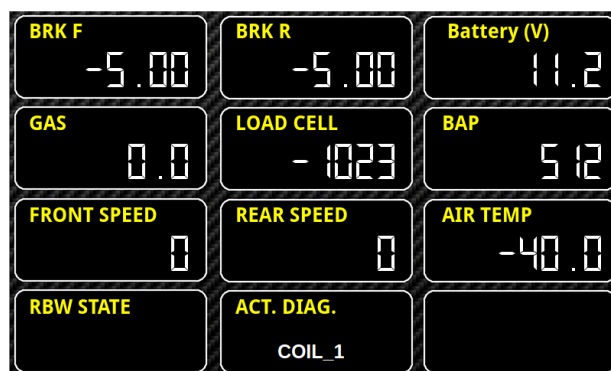
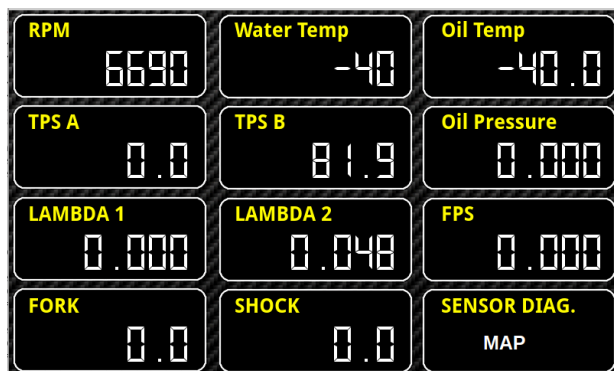


As with all supported motorcycles, the *Chrome Lite* supports two display types, RACE and BOX. For each configuration, you can choose what to display in each of the four available fields. The speed display in the top right is shared by both pages, and you can choose between displaying Workmode, Temperature, rear speed, GPS speed, or the gear selected.

The Options submenu allows you to configure some display-related functions. A function can be assigned to each button press. For example, in the image, the RACE-BOX page change has been set by pressing the UP button. This can be done with the motorcycle stationary or by the rider on the track, thus doubling the displayable fields.

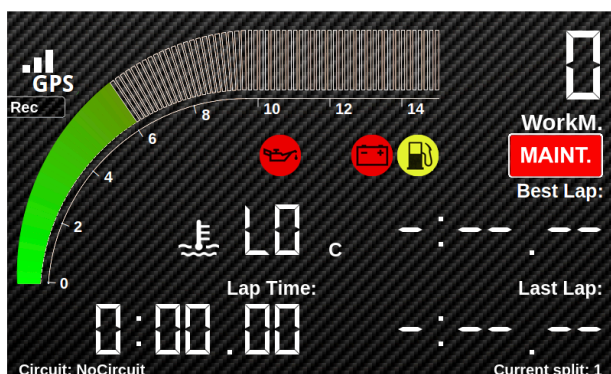
The "Auto page change" function, on the other hand, enables a special function for the NG motorcycle. If set to "Vel1" (speed1) as soon as the speed drops below 10 km/h, the system automatically switches to the real-time channel display shown in the image. Using the UP and DN buttons, you can move between the two real-time channel pages.

It is however possible to manually exit this function by pressing the LONG UP button to return to the classic screen or menus even when the motorcycle is stationary.



The *Race duration* function can also be set using the display options. By enabling the *Lap Count* function on the Race page, you can choose whether to display the laps completed or the remaining laps. Setting Race duration to OFF will cause the counter to increment with each lap starting from zero, while setting a number other than zero will cause the counter to start from that number and then decrease with each lap.

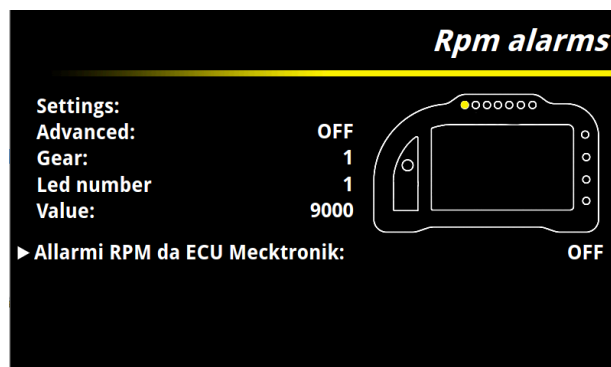
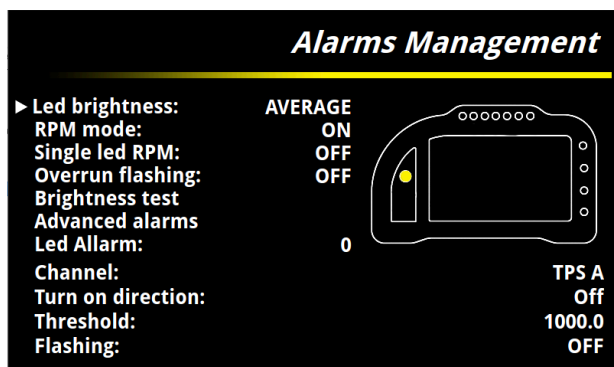
The *Chrome Plus2* and *Pro2* have two Race pages (Pista1 and Pista2) and the ability to freely configure up to four box pages. Each box page can contain up to 12 channels, choosing the position of each channel on the screen. As with the *Chrome Lite*, enabling automatic page switching will cause the *Chrome Plus2* and *Pro2* to switch to the box page as soon as the speed drops below 10 km/h.



When the ECU is in "Maintenance mode active," the MAINT. label will appear on the main screen to alert mechanics.

RPM Alarms

In the alarms menu, you can select "Rpm mode." This will reserve all the upper LEDs for RPM alarms and enable the advanced menu. In the advanced menu, you can enable advanced settings, which allows you to select the threshold for each LED to illuminate based on the selected gear. Alternatively, you can enable the LEDs controlled directly by the ECU using the CAN parameter named SHIFT_LIGHT.



When this mode is active, the LEDs light up when the value received from the ECU exceeds the following thresholds sent by the ECU:

LED	THRESHOLD
1	14%
2	28%
3	42%
4	56%
5	70%
6	84%
7	96%

When the value exceeds 99% then all the LEDs will start to blink.

When SPEED_LIMIT is activated, all LEDs will be lit with active flashing.

X2 alarms

The *first red LED at the top right* lights up and flashes under the following conditions:

Green Flag
Yellow and Red Striped Flag
White Flag with diagonal Red Cross
White Flag
Blue Flag
Chequered Black/White Flag
Penalty: Exceeding Track Limits

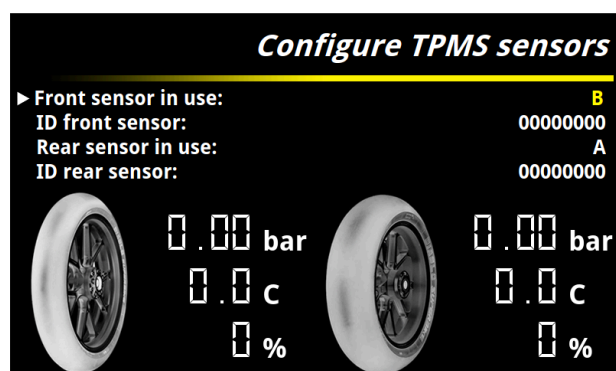
The *4 red LEDs on the right* light up and flash under the following conditions:

Red Flag
Black Flag
Black Flag with Orange Disc
Penalty: Ride-Through
Penalty: Drop Position

Note that this latter condition takes precedence over the illumination of only the first red LED at the top right.

TPMS

By selecting the NG motorcycle, the Chrome Lite will receive TPMS value signals directly from the TPMS receiver, following the Dorna standard. Therefore, it is not necessary to connect a specific I2M TPMS receiver, as the protocol is standard.



It is possible to pre-set up to 4 sensors for the front wheel and 4 for the rear wheel. You will then need to choose which sensor to display for each wheel; the system will ignore any other sensors that may be active, for example in the garage. Regarding I2M sensors, in this case you must indicate the compressed ID indicated in our note for the Dorna protocol and not the one present on the sensor to be compatible with the Dorna protocol.

As indicated in the dedicated manual, in the case of the Chrome Plus2, enabling the TPMS function automatically creates 10 CAN channels (from 119 to 128) from which the dashboard will acquire the information relating to the TPMS sensors transmitted by the Dorna-approved receivers.