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MyChron Expansion

USER GUIDE - Release 1.04



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MyChron5 and MyChron Expansion

This user manual explains how to use AiM MyChron Expansion with your MyChron5.

Firmware release from 1.24.14 or higher.



MyChron Expansion analog inputs

MyChron Expansion has 4 inputs, that can be connected to these sensors:

- Throttle potentiometer
- Brake potentiometer
- Water temperature thermo resistance
- Speed sensors
- Steering angle potentiometers
- Generic 0-100% sensors
- Brake pressure sensors
- Gas valve (AiM power valve)
- Wheel temperature sensors
- Generic 0-5V sensors

- Channel 1 and 2 can also be connected to a digital speed sensor.

Each enabled channel is recorded at 20 Hz.

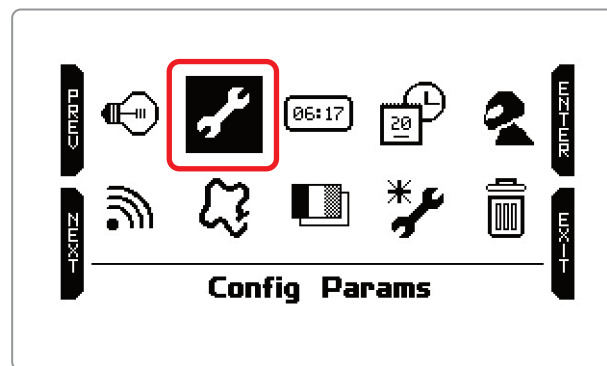
After having connected MyChron Expansion you need to configure MyChron5 in order to manage the sensors.

The steps to follow are:

- choose the sensor connected to each channel
- if necessary, configure the sensor, setting the proper parameters
- if necessary, calibrate the sensors
- configure the display custom page(s) where the information coming from the sensors will be shown.

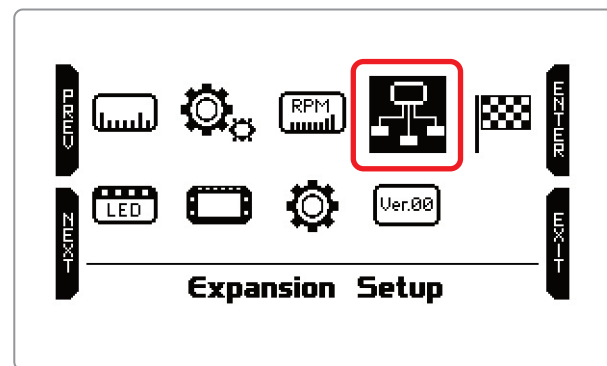
MyChron configuration

- Connect AiM MyChron Expansion to your MyChron5
- Press "MENU" -> "Config Params"

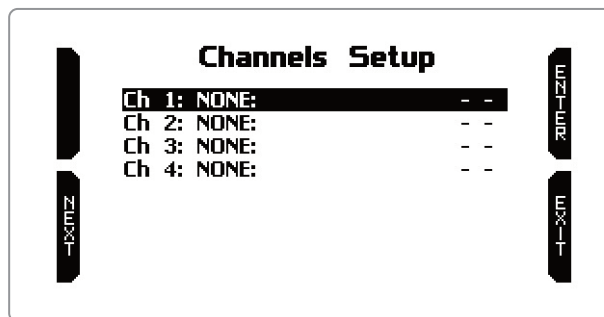


- Press "ENTER"

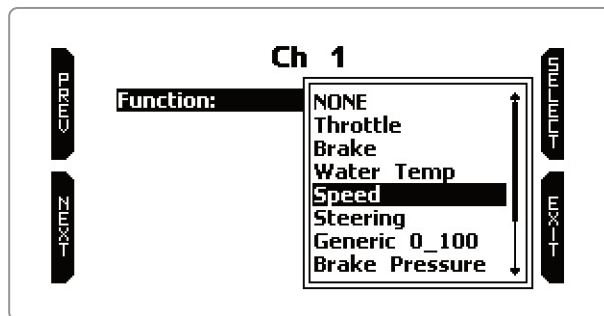
- in "Config Params" page press "Expansion Setup" icon.



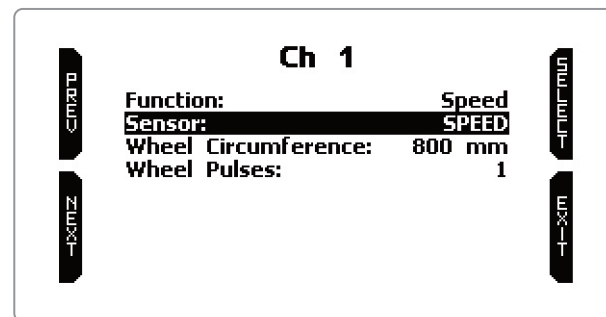
Pressing "ENTER" you reach this page.



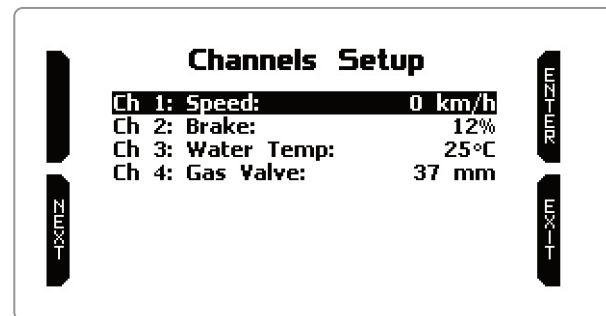
Press "ENTER" to set each channel function (i.e. speed)



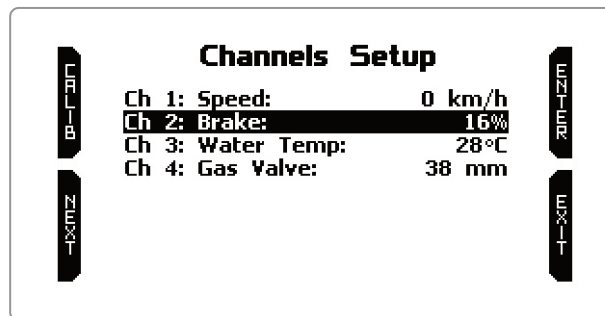
Then you need to select the sensor type and other parameters possibly required.



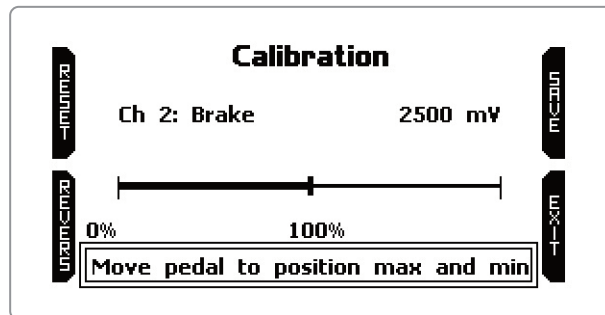
When all channels have been set you are prompted to "Channels Setup" page, that now shows all the sensors you set.



Selecting a sensor that needs to be calibrated "CALIB" pushbutton appears.



Push it, follow the instructions prompted on MyChron5 display and press "SAVE".

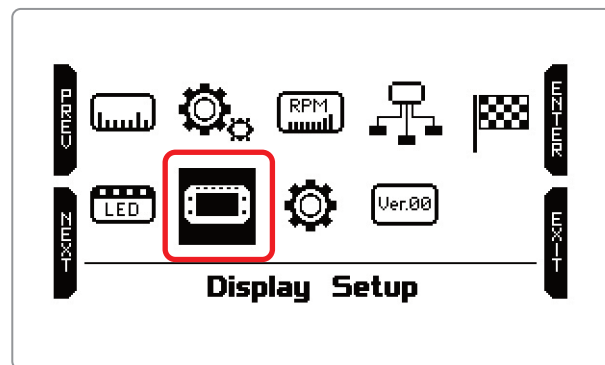


Press twice "Exit" to return to the new page with "Config Params" icon selected.

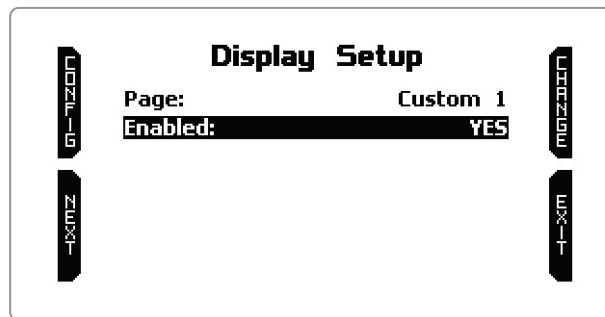
Display Setup

Once MyChron Expansion channels set you can also show them on MyChron5 custom pages.

In "Config Params" page scroll up to "Display setup" icon and press "Enter."

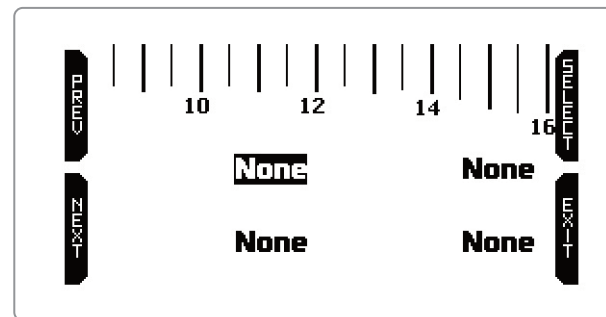


- Select the Custom page where to show MyChron Expansion channels (i.e. Custom 1).
- Enable the page
- Press "CONFIG"

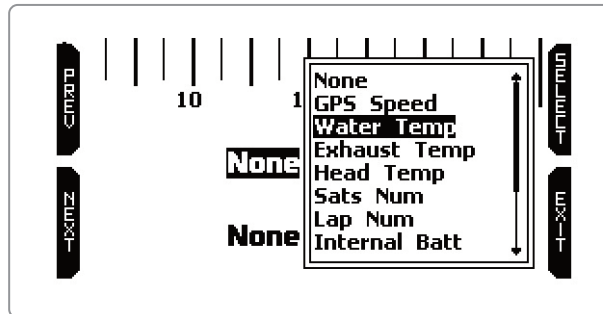


Display Setup

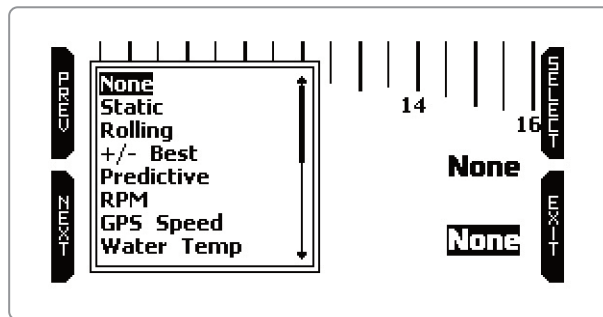
Entering the Custom page you see RPM Bar graph on top and four fields set as None:



- Three fields can be set only as measure field
- Place the function you want to show in the field you prefer



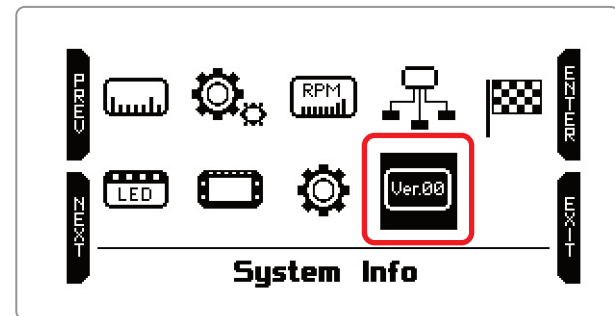
- The fourth field – bottom right – can be set either as lap time or as measure field. Lap time options are shown top of the list – see below



- Once all fields set press "EXIT"

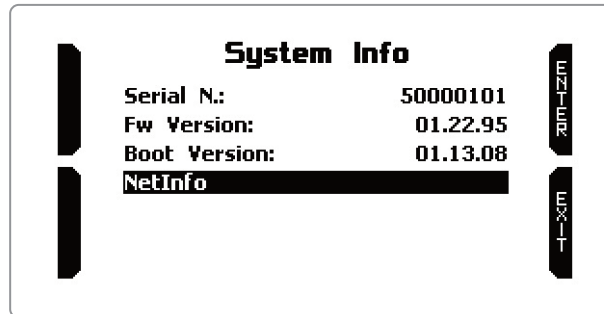
Network Information

To know the firmware version of your MyChron Expansion go to "Config Params" page and press "System Info":



In "System Info" page:

- Select "NetInfo" option as here below
- Press "ENTER"

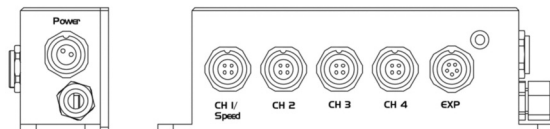


Network Information

Network information page shows all expansions connected to your gauge as well as their serial number and firmware version.



Technical specifications



2 pins Binder 712
female connector pinout
front view

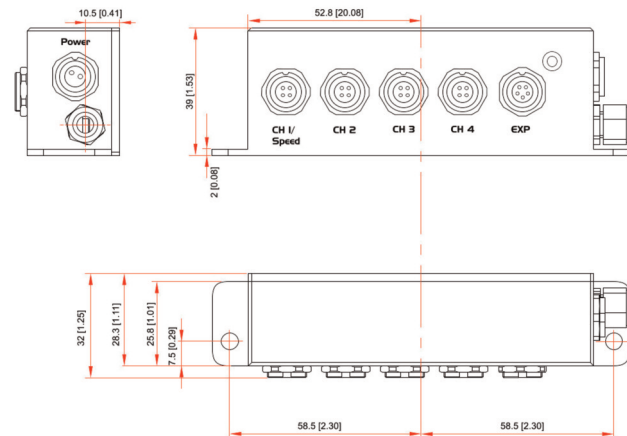


4 pins Binder 712
female connector pinout
front view



5 pins Binder 712
female connector pinout
front view

POWER	CH1	CH2	CH3	CH4	Exp
1 - +Vb ext 2 - GND	1 - Analog input 1 2 - GND 3 - +Vb 4 - +Vref	1 - Analog input 2 2 - GND 3 - +Vb 4 - +Vref	1 - Analog input 3 2 - GND 3 - +Vb 4 - +Vref	1 - Analog input 4 2 - GND 3 - +Vb 4 - +Vref	1 - CAN+ 2 - GND 3 - +Vb 4 - CAN- 5 - +Vbext



Sampling frequency

20 Hz

Dimensions

127x24x33 mm

Weight

194 g

Waterproof

IP65

