Dear MyChron Light MRT Owner

The new **MyChron Light MRT** is an evolution of the well known MyChron, that, since 1996, has been constantly improved in terms of dimensions, recording capability and reliability. Its unbelievably small dimensions, the internal batteries, the automatic power off feature, the amount of data recordable in the internal not volatile ram memory and the very good price/features ratio make **MyChron Light MRT** a great tool to monitor the kart engine as well as kart and driver performances.

AIM Customer Service is available every day from 9 to 5 and at most all the major races throughout the country, to provide you with personal assistance. If you have any question, need help, or want to give us feedback, please visit our website, **www.aim-sportline.com**.

Thank you for your **MyChron Light MRT** purchase!

AIM headquarter in Cernusco Sul Naviglio (MI) Italy

SUMMARY

AIM Srl
Via Cavalcanti, 8
20063 Cernusco Sul Naviglio
Milan - Italy
Tel.: +39.02.92.90.571
Fax: +39.02.92.11.80.24

Getting Started with MyChron Light MRT

Aim has developed and tested your **MyChron Light MRT** to provide you precise and accurate results.

Here are the parts of your system

With reference to **Figure 1**

- MyChron Light Display CPU (1);
- RPM sensor. (3);
- Thermocouple – in alternative you can have: Water Sensor (2), Exhaust Gas Sensor (4) or Under spark Temperature Sensor (5); Water Temperature Sensor can be provided with an M5 or with a 1/8 connection;
- Optional water thermocouple M5 fitting (6);
- Thermocouple extension cable (not shown).

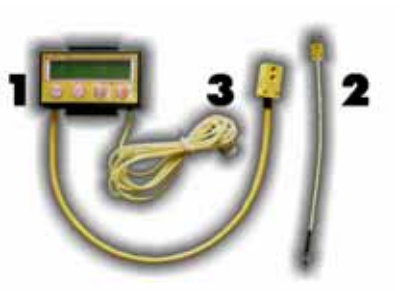


Fig. 1 MyChron Light MRT standard kit

Also available

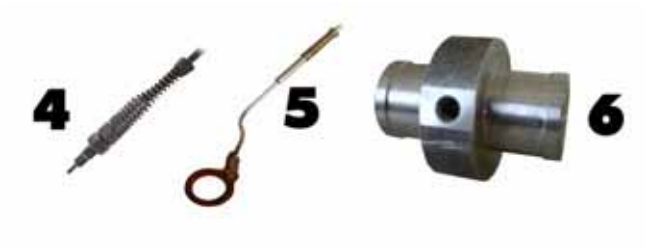
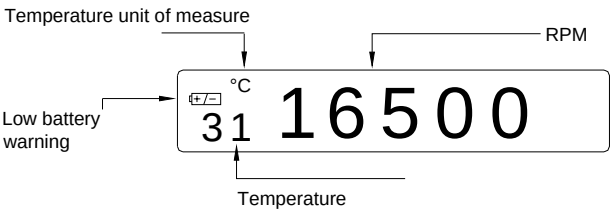


Figure 2 – **MyChron Light MRT** accessories

MyChron Light MRT and its parts:

The Display



The display generally shows RPM and temperature.

Moreover there are some small icons showing:

- configured Temperature Unit of Measure (Celsius or Fahrenheit);
- Temperature
- Low Battery Warning, that appears when batteries charge status is low.

The Keyboard

The Keyboard is composed of four push-buttons and is used to switch ON and OFF the system, configure it, recall recorded data and clear the internal memory.

The four pushbuttons are used to:

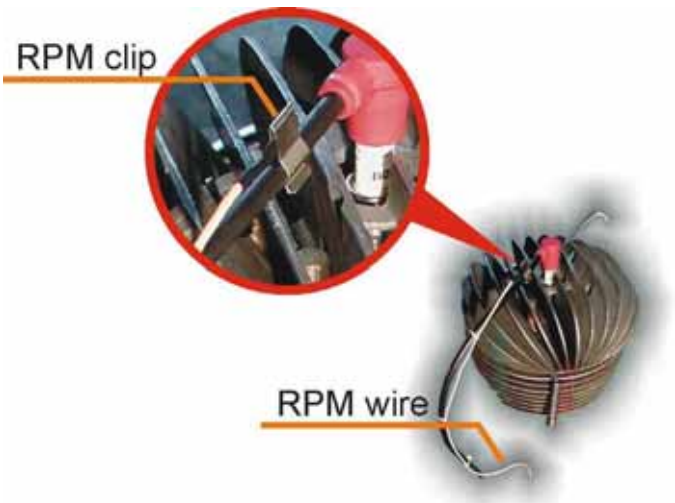
ON/VIEW	Switch ON the system and change the page
NEXT/MEM	Configure the system
CONF / >>	Confirm a configuration or switch to the following field (see "Configuration functions" paragraph)
MENU / <<	Enter in MENU mode, scroll "*Configuration*" menu options (see "Configuration functions" paragraph)

To switch the gauge OFF, please press "*NEXT/MEM*" and "*ON/VIEW*" buttons at once.

Your MyChron Light has also an auto-power off feature that switches it off automatically after 10 minutes of inactivity.

The RPM Cable

This clip wire is designed to be plugged directly on the spark plug wire and is used for RPM pick up from one-cylinder, **2-4 stroke engines**.



The Thermocouple

All ***AIM*** thermocouples are K-Type; ***AIM*** can provide you four different kind of sensor (shown in the figure below):

1. H_2O - Water thermocouple1/8 inches type.
2. H_2O - Water thermocouple M5 type
3. EGT - Exhaust gas thermocouple
4. CHT - Cylinder head thermocouple

Thermocouple from 2 to 4 are provided with an extension cable (length 1.5 m / 45 inches) Thermocouple 1 doesn't need extension cables (Thermocouple length is1.5 m / 59 inches).

How to use MyChron Light MRT

When you switch **MyChron Light MRT** ON it shows some information; here they are described in the same order as they appear:

1. AIM 1_xy — Firmware version.
2. OK DATA/NO DATA — **OK DATA**: the laptimer has some recorded data in its memory;
   NO DATA: the memory is empty.

Configuration function

Before starting, please configure your gauge in order to acquire correct and reliable data.

After switch ON, enter in *Configuration Mode* (push "*MENU*" button) to set all required parameters.

The parameters that you have to set are here explained.

RPM ratio

Is the number of spark signals per engine revolution.

For example: a two stroke, 1 cylinder engine has **ONE** spark signal **per** revolution; a four stroke, one cylinder engine has **one** spark signal **every TWO** engine revolutions, etc.
To run this function, once entered "*Configuration*" MODE, please push "*MENU*" button until when you see

RPM RATIO

Then push CONF button until when you see the desired ratio. Available ratios are:
:1, :2, :3, :4, :5, :6 and x 2.
:1 is the proper mode for a one cylinder 2 strokes kart.
Once the proper ratio chose, please confirm it pushing "*MENU*" button.

MAXIMUM RPM

This function sets the maximum RPM value of your engine.
Please note: this parameter has to be set with the maximum accuracy to avoid bad picks of RPM. Set for example 20.000 if your engine reaches 19.500 max. RPM.
To set the option, enter "*Configuration"* MODE, push "*MENU*" button till when you see

MAX RPM

Then push "*CONF*" button to display the set value; use "*CONF*" button to scroll digits and "*NEXT/MEM*" button to change the value of the blinking digit. Once the proper value set, confirm it, pushing "*MENU*" button.

Temperature unit of measure

This function sets the temperature measure unit; you can chose between Celsius and Fahrenheit. To run this function, please enter "*Configuration*" Mode and push "*MENU*" button until when you see

CENT or FAHR

then choose the desired Temperature unit of measure and confirm it pushing "*MENU*" button.

Other functions

Engine working time

This function computes the total working time of your engine.
To run this function, once entered "*Configuration*" Mode you see

TOT run

Then push CONF button to display the total engine working time.

Clear Data

This function clears all data stored in the memory of your **MyChron Light MRT**. To run the option, once entered "*Configuration*" Mode, push "*MENU*" button until when you see

clr data

Then push twice "*NEXT/MEM*" button to clear data. When the memory has been cleared a confirmation message appears

DONE

Utility functions

Now you are ready to manage the data you have acquired with your gauge.

This gauge records lap times absolute maximum values for RPM and temperature for the whole test

At the end of each test push "*NEXT/MEM*" button to display, one by one, maximum values of RPM and temperature and "*ON/VIEW*" button to switch among the pages.