



**SIGMA**<sup>®</sup>  
GERMANY

EN



**MOTOR CYCLE COMPUTER**

**MC 1812**



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# 1 Functions and packaging contents

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## 1.1 Foreword

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Thank you for choosing a SIGMA SPORT® motorcycle computer. Your new MC 1812 will be a loyal companion for your motorbike trips for years to come. To familiarize yourself with and learn how to use the many functions of your new motorbike computer, please read these operating instructions carefully.

SIGMA SPORT® wishes you hours of fun and enjoyment with your MC 1812.

The MC 1812 is a multi-functional motorbike computer that provides you with a broad range of information both during and after your trips:

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### Note

Use the MC 1812's functions to improve your safety when riding your motorbike. For example, you can optimize your braking technique during motorcycling safety training. Use the highway acceleration measurement values to see how long it actually takes to overtake on a country road or motorway. Implement the values obtained to make your riding style even safer.

- 
- Speed measurement up to 399 km/h.
  - Large display (32mm x 34mm)
  - Speed, time, distance, acceleration, highway acceleration measurement, braking measurement
  - Ability to customize the MC 1812's settings.
- 

### WARNING

Do not operate the device while riding. A lack of attention to the other traffic on the road can lead to accidents with serious material damage, personal injury or even death. You bear full responsibility for the use of this device.

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### 1.2 Packaging contents

<p>MC 1812 motorcycle computer</p> 	<p>Universal bracket (CR2450)</p> 
<p>Battery compartment key and battery</p> 	<p>Magnets</p> 
<p>Attachment materials</p> 	
<p>MC 1812 quick start guide</p>	

### 1.3 MC 1812 functions

The MC 1812 is a versatile motorcycle computer. In addition to the classic functions, the MC 1812 can also measure the average speed, maximum speed, acceleration, highway acceleration, braking coefficient, and braking distance.

All current values can be simply and permanently read from the large display.

## 2 Attaching the MC 1812 and initial use

Detailed attachment information can be found in the quick start guide provided.

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### 2.1 Attaching the bracket

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- Attachment to the handlebars or cockpit
- Remove the adhesive tape from the bracket (permanent attachment)
- The bracket can be attached using either cable ties (permanent attachment) or the O-rings.

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### 2.2 Attaching the sensor

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- Use the cable ties to attach the sensor to the front wheel fork.
- Ensure that the sensor cable cannot rub anywhere.
- The sensor cable must have enough play when turning the handlebars.

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### 2.3 Connecting the sensor to the bracket

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- Guide a sensor cable contact head from below into the left, lower section of the bracket.
- Insert the cable with the contact head into the opening from the top.
- Press the contact head into the bracket.
- Now guide the other end of the sensor cable into the right, lower section of the bracket from below.
- Insert the cable with the contact head into the lower of the two openings from above.
- Press the contact head into the bracket.
- The sensor is now connected to the bracket.

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## 2.4 Attaching the Sigma MC 1812 to the bracket

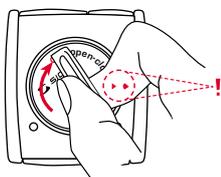
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- Hold the MC 1812 motorcycle computer in your hand with the display facing upward so you can read it.
- Rotate the MC 1812 approx. 45° to the right and insert it into the bracket.
- Turn the MC 1812 to the left.
- The MC 1812 audibly clicks into place.

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## 2.5 Initial use

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To save power, the MC 1812 comes without the battery inserted.

Please insert the battery by opening the battery compartment using the tool provided. Once you have inserted the battery, use the tool to close the battery compartment.

The MC 1812 jumps to setting mode.

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## 2.6 Initial use of the sensor

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To use the sensor, the MC 1812 must be clicked into the bracket. As soon as at the wheel has rotated at least twice, the speed, for example, will appear on the display.

### 2.6.1 Auto wake up

To reduce the power consumption, the device will switch to sleep mode after a five-minute break. A wheel rotation automatically exits this mode.

### 3 Operating concept

#### 3.1 Button functions

##### Reset button

Press this button to scroll backward through the Mode 2 functions.

Press and hold this button to zero the values for the general functions.

Basic settings menu:  
(-) button, backward.

##### Mode 2 button

Press this button to scroll forward through the Mode 2 functions.

Basic settings menu:  
(+) button, forward.



##### Set button

Press this button to scroll backward through the Mode 1 functions.

Press and hold the button to open/close the basic settings menu.

Basic settings menu:  
press the button to save the change.

##### Mode 1 button

Press this button to scroll forward through the Mode 1 functions.

Basic settings menu: Select menu item.

#### 3.1.1 Standard button functions

##### Mode 1 functions

- Trip distance
- Trip time
- Avg. speed
- Max. speed
- Acceleration measurement
- Highway acceleration measurement
- Braking coefficient measurement
- Braking distance
- Drag racing

##### Mode 2 functions

- Time
- Total distance
- Total time

### 3.1.2 Button functions for basic settings

#### Reset

Minus [-]  
Backward

#### Mode 2

Plus [+]  
Forward

#### Set

Open Mode 1 functions  
Save Mode 1 functions

#### Set (press and hold)

Settings OPEN  
Settings CLOSE

#### Mode 1

Acceleration  
Highway acceleration  
Braking  
Total distance  
Total time  
Contrast  
Language  
Unit  
Wheel size  
Time

## 3.2 Display structure

The MC 1812's display is divided into two main areas:

### 3.2.1 Top display segment

This always displays your current speed in either KMP or MPH. The unit can be set in the basic settings menu.



### 3.2.2 Bottom display segment

This displays the currently selected function (first line) and the current value (second line).

Press the Mode 1 and Mode 2 buttons (see 3.1.1) to select the individual functions.



## 4 Basic settings



### Accessing the basic settings menu:

- Press and hold the **Set** button for three seconds.
- 'Setting OPEN' appears in the bottom display segment.
- 'Setting OPEN' flashes.
- The first menu item appears on the display: 'Accel.' and '0 - 100' (default value).

Now press the **Mode 1** button to go to the menu item that you want to set or change.

### To exit the basic settings:

- Press and hold the **Set** button for three seconds.
- 'Setting CLOSE' appears on the display
- 'Setting CLOSE' flashes
- The display menu reappears.



### WARNING

Do not operate the device while riding. A lack of attention to the other traffic on the road can lead to accidents with serious material damage, personal injury or even death. You bear full responsibility for the use of this device.

## 4.1 Acceleration measurement



- 1 Press the **Set** button.
- 2 'Target speed' appears and the indicator '100' (default value) flashes.
- 3 Press **Mode 2** (+) or **Reset** (-) to set the value you desire (e.g. '80').
- 4 Press the **Set** button to save your setting. 'Setting OK' appears on the display.

Further explanations can be found in section „5.6 Acceleration measurement“.



## 4.2 Highway acceleration measurement

- 1 Press the **Mode 1** button to switch to the 'highway acceleration' menu.
- 2 Press the **Set** button.
- 3 'Start speed' and '60' (default value) appear.
- 4 Press **Mode 2** (+) or **Reset** (-) to set the value you desire.
- 5 Press the **Set** button.
- 6 'End speed' and '100' (default value) appear.
- 7 Press **Mode 2** (+) or **Reset** (-) to set the value you desire.
- 8 Press the **Set** button.
- 9 'High. accel. time' appears on the display and flashes.  
Press the **Mode 2** or **Reset** button to change the display to 'High. accel. dst.'  
(distance, indicator in m for meters). Set the function you desire.
- 10 Press the **Set** button to save your setting.  
'Setting OK' appears on the display.

Explanations about this function can be found in section „5.7 Highway acceleration measurement“.



## 4.3 Braking measurement

- 1 Press the **Mode 1** button to switch to the 'braking' menu.
- 2 Press the **Set** button.
- 3 'Braking' ( $m/s^2$ ) and the factory default value appears on the display for the minimum deceleration.
- 4 Press **Mode 2** (+) or **Reset** (-) to set the value.
- 5 Press the **Set** button to save your setting.  
'Setting OK' appears on the display.

Explanations about this function can be found in section „5.8 Braking measurement“.



#### 4.4 Total distance

Use this area to enter existing values (e.g. transferred from your old device). New values are then added to these (see also section „5.2 Trip distance“).

- 1 Press the **Mode 1** button to switch to the 'Total dist.' display. The total distance is displayed.
- 2 Press the **Set** button.
- 3 The first digit for entry flashes (displayed with thousands separator).
- 4 Press **Mode 2** (+) or **Reset** (-) to set the value.
- 5 Press the **Mode 1** button to switch to the next digit.
- 6 Repeat the process.
- 7 Press the **Set** button to save your setting. 'Set OK' appears on the display.



#### 4.5 Total time

Use this area to enter existing values (e.g. transferred from your old device). New values are then added to these (see also section „5.3 Trip time“).

- 1 Press the **Mode 1** button to switch to the 'Total time' display.
- 2 Press the **Set** button. The first digit for entering the hours (h) flashes (attention: a dot appears on the display as a thousands separator!).
- 3 Press the **Mode 2** (+) or **Reset** (-) button to set the value and the **Mode 1** button to move to the next digit.
- 4 Repeat the process.
- 5 Once you have changed all four digits for the hours indicator, press the **Set** button to move to the minutes input.
- 6 The first digit for entering the minutes (min) flashes.
- 7 Press the **Mode 2** (+) or **Reset** (-) button to set the value and the **Mode 1** button to move to the next digit.
- 8 Press the **Set** button to save your setting. 'Set OK' appears on the display.



## 4.6 Contrast

- 1 Press the **Mode 1** button to switch to the default menu item 'Contrast'.
- 2 Press the **Set** button. The digit displayed flashes.
- 3 Press **Mode 2** (+) or **Reset** (-) to set the value. (1=weak/3=strong)
- 4 Press the **Set** button to save your setting. 'Set OK' appears on the display.

## 4.7 Language



- 1 Press the **Mode 1** button to switch to the default language.
- 2 Press the **Set** button. The display flashes.
- 3 Press **Mode 2** or **Reset** to select the desired language.
- 4 Press the **Set** button to save your setting. 'Set OK' appears on the display.

## 4.8 Setting/changing the unit



- 1 Press the **Mode 1** button to switch to the default unit.
- 2 Press the **Set** button. The display flashes.
- 3 Press **Mode 2** or **Reset** to switch between KMH and MPH.
- 4 Press the **Set** button to save your setting. 'Set OK' appears on the display.



## 4.9 Wheel size

- 1 Press the **Mode 1** button to switch to the 'Wheel size' menu.
- 2 Press the **Set** button. The first two digits for entry flash.
- 3 Press **Mode 2** (+) or **Reset** (-) to set the value.
- 4 Press **Mode 1** to move to the next digit and **Mode 2** (+) or **Reset** (-) to set the value. Repeat the process for the final digit.
- 5 Press the **Set** button to save your setting. 'Set OK' appears on the display.

### 4.9.1 Determining the wheel size

You can determine the wheel size in several ways.

- Calculation on the basis of Figure A or B

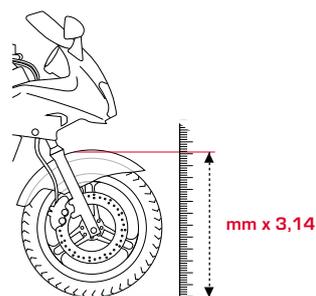


Figure A

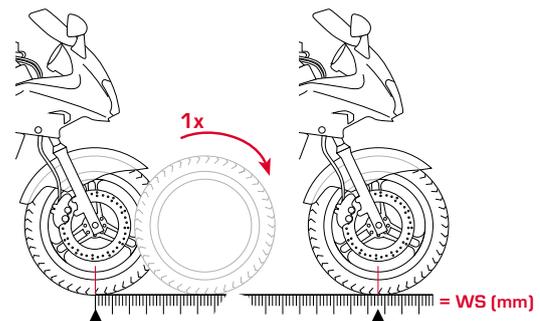


Figure B



#### 4.10 Time

- 1 Press the **Mode 1** button to switch to the 'Time' menu.
- 2 Press the **Set** button. The hours digit flashes.
- 3 Press **Mode 2** (+) or **Reset** (-) to set the value.
- 4 Press the **Mode 1** button to move to the minutes.
- 5 Press **Mode 2** (+) or **Reset** (-) to set the value.
- 6 Press the **Set** button to save your setting. 'Set OK' appears on the display.



#### 4.11 Exiting the basic settings

Press and hold the **Set** button for at least three seconds to exit the basic settings. 'Setting CLOSE' appears on the display, which then switches to the normal menu.

## 5 General MC 1812 functions

### WARNING

Do not operate the device while riding. A lack of attention to the other traffic on the road can lead to accidents with serious material damage, personal injury or even death. You bear full responsibility for the use of this device.

Press any button on the MC 1812 to exit standby mode. The speed indicator appears in the top display segment and 'Trip distance', for example, appears in the bottom display segment.

To activate the functions described below, simply scroll to the relevant function by pressing **Mode 1** (forward) or **Set** (backward).

### 5.1 Display backlight



The backlight function is switched on/off by simultaneously pressing the **Set** and **Reset** buttons. 'Light On' or 'Light Off' briefly appears on the display.

The display lights up for three seconds when any button is pressed; it switches to the respective function when the button is pressed a second time.

### 5.2 Trip distance



The trip distance is automatically recorded each time the computer is started. Press the **Reset** button to reset the distance traveled.

The function is used, for example, to record the length of a specific trip.

### 5.3 Trip time



The trip time is automatically recorded each time the computer is started. Press the **Reset** to reset the recorded time.

The function is used, for example, to record the duration of a specific trip.



## 5.4 Average speed

The average speed is automatically recorded each time the computer is started. Press the **Reset** button to reset the recorded average speed.

The function is used, for example, to record the average speed of a specific trip.



## 5.5 Maximum speed

The maximum speed reached is saved here. Press the **Reset** button to reset the recorded maximum speed.

### Note

Do not use this function when riding on standard roads, only on special sites (e.g. motorcyclist training centers).



## 5.6 Acceleration measurement

The MC 1812 has an acceleration measurement function.

The function '0...100/sec' (default value) starts from standstill. During the measurement, 'calc.' appears on the display. On reaching the target speed, the measurement stops and the result is displayed in the format xx.x sec.

This function is used to record the motorcycle's 'real' acceleration values. The results can be deleted by pressing the **Reset** button.

### Note

Do not use this function when riding on standard roads, only on special sites (e.g. motorcyclist training centers).



## 5.7 Highway acceleration measurement

The MC 1812 has a highway acceleration measurement function. This function '60...100/sec' (default value) measures the time (or optionally the distance – selectable in the basic settings) that the motorcycle needs to accelerate from a lower to a higher speed.

The measurement starts as soon as the lower speed is exceeded. The measurement ends as soon as the higher speed is reached. During the measurement, 'calc.' appears on the display. The measurement result is displayed in the format xx.x sec or optionally in m.

### Note

Do not use this function when riding on standard roads, only on special sites (e.g. motorcyclist training centers).



## 5.8 Braking measurement

The MC 1812's braking measurement measures the braking coefficient 'brake (m/s<sup>2</sup>)' and the braking distance 'brake dist.'. The measurement is triggered via a freely configurable minimum deceleration value (see basic settings). The minimum deceleration is needed to prevent the braking measurement from being triggered when the rider simply releases the throttle.

During the measurement, 'calc.' appears on the display. The measurement result is displayed in the format xx m/s<sup>2</sup> for the braking coefficient and in xx m for the braking distance. The speed range in which the measurement took place is also displayed.

This provides you with information about your braking behavior so that you can optimize it.

### Note

Do not use this function when riding on standard roads, only on special sites (e.g. motorcyclist training centers).



## 5.9 Drag race/quarter-mile race

The MC 1812 has a drag race function. The measurement begins from a standing start. During the measurement, 'calc.' appears on the display. On reaching a distance of quarter of a mile, the measurement stops and the result is displayed in the format xx.x sec.

### Note

Do not use this function when riding on standard roads, only on special sites (e.g. motorcyclist training centers).

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## 6 Reset functions

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### 6.1 General functions

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The general functions such as:

- Trip distance
- Trip time
- Avg. speed
- Max. speed
- Acceleration measurement
- Highway acceleration measurement
- Braking coefficient measurement
- Braking distance
- Drag racing

are reset (zeroed) by pressing the **Reset** button. Each function must be reset individually.

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### 6.2 Mode 2 functions

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The Mode 2 functions

- Total time
- Total distance

can only be reset in setting mode.

## 7 Important information, troubleshooting, and FAQ

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### 7.1 Important information

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#### MC 1812 water resistance

The MC 1812 is watertight. It can be used in the rain without any risk of damage. The buttons can be pressed.

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### 7.2 Troubleshooting

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#### No speed displayed

- Is the computer correctly fastened into the bracket?
- Have you checked the contacts for oxidation/corrosion?
- Have you checked the distance between the magnet and the sensor (max. 12 mm)?
- Is the universal bracket's cable inserted into the right holes?
- Have you checked the cable for faults?

#### Display blank

- Have you checked the MC 1812's battery status?
- Has the battery been correctly inserted (+ up)?
- Are the battery contacts okay (bend carefully)?

#### Display weak/slow

- Is the temperature too high (> 60°C) or too low (< 0°C)?

#### Incorrect speed displayed

- Have two magnets been attached?
- Is the magnet correctly positioned?
- Is the wheel size correctly set in the basic settings?

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### 7.3 Frequently asked questions (FAQ)

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#### Can I change the batteries myself?

The MC 1812 has a battery compartment so that the user can change the batteries. When doing so, please ensure that the sealing ring is always correctly positioned before you close the battery compartment.

#### Can another person with a different motorcycle computer cause interference?

No.

**How long will the battery in the MC 1812 last?**

The battery life depends on how much the device is used and whether the light manager is used.

In general, the MC 1812 is designed so that the CR 2450 battery used lasts at least four years (based on one hour of usage each day).

## 8 Technical data

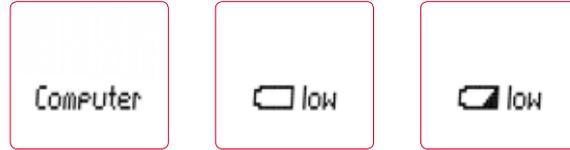
### 8.1 Max, min, and default values

	Unit	Min.	Max.
<b>Speed</b>			
Current speed	km/h; mph	3	399
Avg. speed	km/h; mph	0.0	399.8
Max. speed	km/h; mph	0.0	399.8
Braking coefficient m/s <sup>2</sup>	m/s <sup>2</sup> ; ft/s <sup>2</sup>	0.0	
<b>Time</b>			
Time	hh:mm (24 h)	00:00	23:59
Total time	h.hhh:mm	0:00	999:59
Trip time	hhh:mm:ss	0:00:00	9:59:59
Time greater than 10h	hh:mm	10:00	999:59
Acceleration 0...100/sec The acceleration can be measured up to a maximum of 399 km/h	s	0.0	
Highway acceleration 60..100/sec The highway acceleration can be measured up to a maximum of 399 km/h Difference 20 km/h	s	0.0	
Drag racing	s	0.0	
<b>Route</b>			
Total distance	km/mi	0	99,999
Trip distance	km/mi	0.00	999.99
Braking distance	m/ft	0	



## 8.2 Changing the batteries

The MC 1812 indicates if the battery needs to be changed. The display alternates between the text 'Computer' and the battery icon plus 'low'.



After changing the battery, only the time needs to be reset.

### Motorcycle computer (back)

- Use the tool provided to open the compartment.
- Note the polarity.
- If the sealing ring is loose, reposition it.
- Use the tool provided to close the compartment.

## 8.3 Temperature, batteries

### Motorcycle computer:

Ambient temperature +60°C/-10°C

### Batteries:

CR 2450 button cell



Batteries must not be disposed of in household waste (Battery Law - BattG)! Please take the batteries to an official collection point for disposal.



Electronic devices must not be disposed of in household waste. Please take the device to an official waste collection point.

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## 9 Warranty and guarantee

We are liable to our contracting partners for defects in line with legal provisions. The warranty does not extend to batteries. In the event of a warranty claim, please contact the retailer from whom you purchased your motorcycle computer. You can also send your motorcycle computer, together with your receipt and all accessories, to the address below. Please ensure you pay sufficient postage.

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Service tel. +49-(0)6321-9120-140  
E-mail: [service@sigmasport.com](mailto:service@sigmasport.com)

In the event of justified warranty claims, you will receive a replacement device. You will only be entitled to the model available at the time of replacement. The manufacturer retains the right to make technical modifications.

**You can find the CE declaration under: [www.sigmasport.com](http://www.sigmasport.com)**

**SIGMA-ELEKTRO GmbH**

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