

CICLOMASTER

CM 619

Congratulations on your purchase!

With the **CICLOMASTER CM 619** you have acquired a radio-controlled electronic bike computer with the highest level of precision and novel digital transmission technology. It possesses state-of-the-art electronics, is waterproof and has a durable and long service life. Its special feature: Transmission from transmitter to device is implemented on a digital communication level and this makes it extremely fault-resistant.

The **CM 619** has a Two-in-One system. This means that you can use it with 2 bikes and have the recorded values displayed separately for either bike or as a total. In this case, the **CM 619** automatically identifies immediately, after the first wheel rotations, which of the two bikes is being used.

In addition, the **CM 619**, with the enclosed cadence transmitter, can display the cadence without wires.

As well as many other functions, the **CM 619** has the AutoScroll function as a further special feature: this means that it displays different images changing one after each other. In this way, you can avoid the distraction of switching functions whilst riding.

Please read through this operating manual carefully.

Verpackungsinhalt



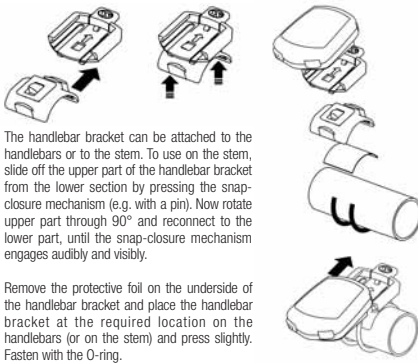
1. CICLOMASTER CM 619
2. Handlebar bracket (with O-ring for fixing)
3. Speed transmitter (with O-ring for fixing)
4. Cadence transmitter (with O-ring for fixing)
5. Spoke magnet
6. Cadence magnet (with cable tie for fixing)

1. Operational startup

Insert battery (+ facing up), close battery cap. Press any button 2 x, display shows "Ini Scan". Now you can initialise the speed transmitter (see chap. 3.3). If unintelligible characters appear in the display, press the AC button on the reverse side of the **CM 619** (repeat if necessary) with the aid of a ballpoint pen (or similar).

Caution: Longer pressing of the AC button (3 sec.) causes a total reset, i.e. all initialisations are also deleted with that, and so the speed, as well as the cadence (if used) must be initialised again (see Chap. 3.3 and 3.5).

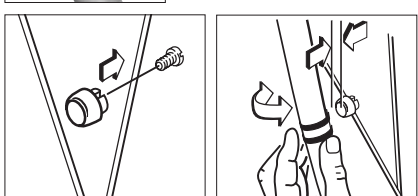
Installation



Slide the **CM 619** onto the bracket in the direction of the arrow until it engages audibly and visibly (release button must be at the initial position). In order to remove it again, press down the release button behind the **CM 619** and remove the **CM 619** with light pressure.

Attach speed transmitter to the fork or to the rear construction with the aid of the attached O-ring (marked side of the transmitter must point to the spokes). Suspend the O-ring on one side of the transmitter, wrap it around the fork and likewise suspend on the opposite side.

Mount the magnets on a spoke directly opposite the transmitter, so that the magnet points exactly to the marker on the transmitter. Do not over tighten the fixing screw on magnet. Turn the transmitter so that the separation distance between transmitter and magnet is not more than 3 mm. To check for correct installation, rotate wheel a few times and check whether the computer receives a signal.



Attach cadence transmitter to a strut opposite the pedal crank with the aid of the O-ring. Hang the O-ring on one side of the transmitter, wrap around the strut and hook back on the opposite side.

Mount the magnets on the pedal crank directly opposite the transmitter with the aid of the cable tie (do not fully tighten at this time), so that the magnet points exactly to the marker on the transmitter. Turn the transmitter so that the separation distance between transmitter and magnet is not more than 3 mm. To check for correct installation, rotate the pedal a few times and check whether the computer receives a signal. Then tighten up cable ties.

2. General

If a **⓪** appears in the top left of display, the indicated values apply to Bike 1. In order to display the values for Bike 2, press both buttons simultaneously for a brief period (the changeover is only possible if the speed = 0) and a **⓪** will appear in the top left of display. To switch back to values for Bike 1 press both buttons simultaneous again briefly, and the display will show **⓪**.

Functionality of the CM 619

By means of the respective transmitter identification, the **CM 619** can automatically identify on which bike it is being used.

For this, it is necessary that it is seated on the handlebar bracket and only in this way is the built-in movement sensor activated, which then initiates the transmitter search with the first registered movement of the bike. During the transmitter search a zero flashes in the upper display and, if a transmitter is found, the flashing stops.

A non-flashing zero in the upper display means that a transmitter has been found, however, it is not transmitting any speed signal at this time i.e. the wheel is at a standstill.

The speed transmitter is activated with the first wheel rotation and the cadence transmitter through the first pedal rotation.

The transmitter search in the **CM 619** can also be started manually (if the **CM 619** is located on the handlebar bracket), this is done by pressing both buttons simultaneously for a short period.

The manual transmitter search functions only if no transmitter has yet been found (" - " in the upper display). If a transmitter has already been found, briefly pressing both buttons simultaneously changes between Bike 1 and Bike 2.

Only when a transmitter has been found (and if the cadence is switched on - setting adjustment mode "C on"), is the relevant cadence also searched for automatically. If no cadence transmitter is mounted, this function should be switched off in the setting adjustment mode, since the cadence transmitter is normally searched for indefinitely (and this search will drain the battery quicker).

Caution: Whilst not in use, or during transportation of the **CM 619** e.g. in the car, the **CM 619** should not remain on the handlebar bracket. Small movements will activate the movement sensor and start the transmitter search, which is a very demanding function on the battery, e.g. during a car journey of several hours, the battery life is greatly reduced if the **CM 619** is still in position on the handlebar bracket and the transmitter search is activated indefinitely by the vibrations of the car during the journey.

3. Basic settings

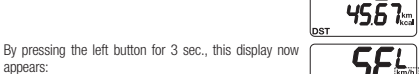
If the **CM 619** is to be used with 2 bikes, some adjustments must be carried out separately for each bike. Ensure the respective Bike number is displayed before adjustments are commenced.

For all adjustments, the following applies: The flashing value can be changed with the **right button**, by short pressing of the **left button** this value is **stored** and the next value to be adjusted flashes or the next display appears.

The current adjusting mode can be prematurely ended by pressing the left button for 3 seconds. All adjustments and displays always refer to the corresponding bike (Display **⓪** or **⓪**).

3.1 Adjusting the unit of measure, the wheel circumference, the daily/total kilometers and switching on and off the cadence

Select the required bike (**⓪** or **⓪**) through short simultaneous pressing of both buttons. Then press the right button shortly until the following display appears:



By pressing the left button for 3 sec., this display now appears:



Unit of measure kilometers or miles
The preferred unit of measure for the display can be set here, kilometers or miles. Change with right button (save setting and continue with left button).

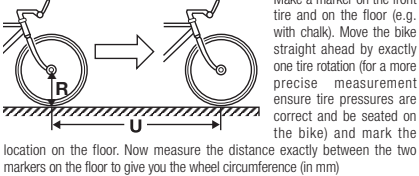
Adjust daily kilometers 1 and 2
Set with right button, save and continue with left button. Default = 0 km or last adjusted value
Setting range min. = 0.00 km
Setting range max. = 999.99 km or 624.99 miles

The daily kilometers can be adjusted here, e.g. as a starting point in case of tours according to a tour guidebook, if the tour was not entered at "0" km.

Wheel circumference 1 and 2
Set with right button, save and continue with left button. Default = 2080 mm (Bike 1) and 2050 mm (Bike 2) or last adjusted value
Setting range min. = 0 mm
Setting range max. = 9999 mm

Tire size	Circumference	Tire size	Circumference
40-559	26 x 1,5 2026 mm	40-622	28 x 1,5 2224 mm
44-559	26 x 1,6 2051 mm	47-622	28 x 1,75 2268 mm
47-559	26 x 1,75 2070 mm	40-635	28 x 1 1/2 2265 mm
50-559	26 x 1,9 2026 mm	37-622	28 x 1 3/8 2205 mm
54-559	26 x 2,00 2089 mm	20-622	700 x 20C 2114 mm
57-559	26 x 2,125 2114 mm	23-622	700 x 23C 2133 mm
57-590	26 x 1 3/8 2133 mm	25-622	700 x 25C 2146 mm
32-620	27 x 1 1/4 2199 mm	28-622	700 x 28C 2149 mm
		32-622	700 x 32C 2174 mm

Measurement of the wheel circumference (U)
(for more precise adjustment):



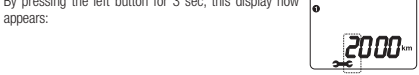
Make a marker on the front tire and on the floor (e.g. with chalk). Move the bike straight ahead by exactly one tire rotation (for a more precise measurement ensure tire pressures are correct and be seated on the bike) and mark the location on the floor. Now measure the distance exactly between the two markers on the floor to give you the wheel circumference (in mm)

Adjust total kilometers 1 and 2
Set with right button, save and continue with left button. Default = 0 km or last adjusted value
Setting range max. = 99999 km or 62499 miles
The total amount of kilometers traveled up to now can be adjusted here.

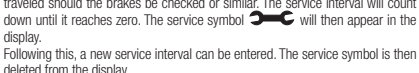
Cadence On/Off switching (ON/OFF)
Switch On and Off with right button (continue with left button).
Here, the cadence can be switched On and Off. The cadence should be switched on only where a cadence transmitter is also used (mounted), since the **CM 619** will normally search for the relevant transmitter indefinitely. The default setting is 'On' for Bike 1 and 'Off' for Bike 2.

3.2 Setting of the service interval

Press the right button until the following display appears:



By pressing the left button for 3 sec., this display now appears:



Setting of the service interval
Set with right button, save and continue with left button. Default = 1000 (km or 625 miles) or the remaining value up to the next service. Range = 0 - 9999 km or 6249 miles
The service interval can be adjusted here, e.g. after how many kilometers traveled should the brakes be checked or similar. The service interval will count down until it reaches zero. The service symbol will then appear in the display. Following this, a new service interval can be entered. The service symbol is then deleted from the display.

3.3 Initialization of the speed transmitter

Press the right button until the following display appears:



By pressing the left button for 3 sec., this display now appears:



Initialization of the speed transmitter

If the initialization display appears. If no speed transmitter is initialized (e.g. after a battery change without power-saving mode, or if the **CM 619** is to be used on a second bike), start the initialization now by short pressing of both buttons (see below). If a speed transmitter has already been initialized, change into the operating mode through short pressing of the left button.

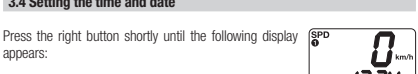
Before the transmitter search, allow the magnet to pass in front of the speed transmitter once (1 wheel rotation). This will start the Transmitter and emit a signal for approx. 3 minutes.

Start the transmitter search in the CM 619 by pressing both buttons for a short time.
A percentage value runs up in the display during the initialization (see Fig.)

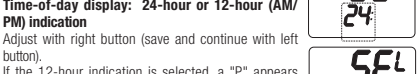
After a successful initialization, the **CM 619** changes automatically into the normal operating mode and the indication SPD/AV appears in the display.

In the case of an unsuccessful initialization (see Fig.), the transmitter search can be started again by repeated short pressing of both buttons. The initialization can be interrupted after a fault by short pressing of the left button, the **CM 619** then switches to the normal operating mode. Pay attention during the initialization that no second speed transmitter is located nearby (currently active). A transmitter already initialized to Bike 1 cannot also be initialized for Bike 2 (or vice-versa).

3.4 Setting the time and date
Press the right button shortly until the following display appears:



By pressing the left button for 3 sec., this display now appears:



Time-of-day display: 24-hour or 12-hour (AM/PM) indication
Adjust with right button (save and continue with left button). If the 12-hour indication is selected, a "P" appears before the time in case of PM time.

Setting the time
Adjust with right and left button (save and continue with left button). Time range = 00:00 - 23:59
Here the current time is set in the 24-hour format. (if the 12-hour display had been selected, 00:00 - 12:59 AM/PM can also be entered; a "P" appears before the time in case of PM time)
If the 12-hour display is selected later, the **CM 619** converts the time automatically.

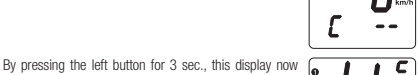
Setting the year
Set with right button, save and continue with left button. Year range = 2000 - 2099

Setting the day/month
Set with right button, save and continue with left button. Day range = 1 - 31
Month range = 1 - 12
Now the current date can be set (with 24-hour display in the day/month format, with 12-hour display in the month/day format).

The following adjustment (Chap. 3.5) appears only if the cadence has been switched on (see Chap. 3.1).

3.5 Initialization of the cadence transmitter

Press the right button until the following display appears:



By pressing the left button for 3 sec., this display now appears:

Initialization of the cadence transmitter
The initialization display for the cadence appears in the display (= Cadence).
If no cadence transmitter has been initialized for the actual bike, start the initialization now (see below).
If a cadence transmitter has already been initialized, change into the operating mode through short pressing of the left button.

Before the transmitter search, allow the magnet to pass in front of the cadence transmitter once (1 pedal rotation). This will start the Transmitter and emit a signal for approx. 3 minutes.
Start the transmitter search in the CM 619 by pressing both buttons for a short time.

A percentage value runs up in the display during the initialization.

In case of successful initialization, the **CM 619** changes automatically into the normal operating mode and the indication SPD/AV appears in the display.

In case of unsuccessful initialization, the transmitter search can be started again by repeated short pressing of both buttons. The initialization is interrupted after a fault by short pressing of the left button and the **CM 619** then likewise changes into the normal operating mode. Pay attention during the initialization that no second cadence transmitter is located nearby (currently active).

The basic settings are now ready. If the CM 619 is to be used for two bikes, the bike-specific settings must be carried out again for the second bike.

4. Functions

The individual **primary functions** can be called up by short pressing of the **right** or **left button**, one after each other. Through pressing the **right button** for 3 sec., the first **sub-function** is called up in each case and, through subsequent short pressing of the **right button**, further sub-functions appear. In travel operating mode, the instantaneous speed is displayed simultaneously with all functions above in the display.

All functions (except for stopwatch and time) have an automatic start/stop in the travel operating mode (if the **CM 619** is located on the handlebar bracket), i.e. the measurement starts shortly after the first wheel (or pedal) rotational motion and ends a few seconds after the last wheel (or pedal) rotational motion.

The daily values for the respective bike are reset to zero through simultaneous pressing of both buttons for 3 sec. (best done directly before beginning a new tour). The indication "Reset" will appear in the display for a short period.
This reset does not work in the stopwatch function. There only the stopwatch is reset by pressing both buttons for 3 sec.

The total values can be deleted through a total reset (press AC button on the reverse side for 3 sec. - all adjustments and the transmitter initializations are then also deleted) or through battery removal for a longer period.

The individual functions and their meanings are explained in the text below.
(To better distinguish the **primary functions** from the **sub-functions**, the primary functions are printed in bold text while sub-functions in bold, italic text.)

Current speed (SPD)

Indicates the current speed in km/h (or mph = miles per hour) and is always displayed with all primary functions in the upper display. In this case, the arrows (to the left in the display) indicate whether the travel speed is faster (**▲**) or slower (**▼**) than the instantaneous average speed. If both arrows are displayed, the travel speed is in the range of the instantaneous average speed. Range: 0 - 999 km/h or 624 mph (depending on the adjusted wheel circumference)
The display shows the speed up to 200 km/h or mph with a decimal place, above that without a decimal place (in this case, the third location is then displayed to the right above, where the decimal place is normally located).

If " - " is indicated in the display, this means that no active speed transmitter has been found. The automatic transmitter search is started through the insertion of the **CM 619** into the handlebar bracket and then a zero flashes in the upper display.

The display again returns to " - ", this means that no transmitter has been found. Then rotate the wheel once slowly (in order to switch on the transmitter) and start the transmitter search again by small movement of the bike or manually by pressing both buttons for 3 sec.

Daily kilometers (DST)

Indication of the kilometers traveled up to now. Range: 0 - 999.99 km or 624.99 miles

Sub-functions:
1. Actual daily kilometers
Sub-function of the function daily kilometers. If the daily kilometers were changed in the basic setting, the daily kilometers actually traveled are displayed here. The symbol of the respective bike appears in the display in this case.

If the daily kilometers were not changed, the sum of the daily kilometers of Bike 1 and Bike 2 is displayed (**⓪** and **⓪**) in the display. Range: 0 - 999.99 km or 624.99 miles

2. Total kilometers
Sub-function of the function daily kilometers. Display of the total kilometers traveled up to now. Range: 0 - 99999 km or 62499 miles

3. Sum of the total kilometers (Bike 1 + Bike 2)
Sub-function of the function daily kilometers. This indicates the total kilometer sum traveled up to now by Bike 1 and Bike 2. Range: 0 - 99999 km or miles

Note: On reaching the maximum value with the functions daily kilometers and actual daily kilometers (and/or sum of the daily kilometers), the value is automatically reset to zero for these functions. Simultaneously, the daily travel time is also reset to zero. On reaching the maximum value with the function total kilometers, the value is also automatically reset to zero. Simultaneously, the value of the total travel time function is reset to zero.

Daily travel time (TM)
Indicates the time traveled up to now (without standstill times, i.e. no wheel rotation is implemented, this time is not calculated). The measurement starts with the first wheel rotation and stops a few seconds after the last wheel rotation. Range: 0 - 999:59 h (up to 9:59:59 seconds are also displayed, after that only hours and minutes)

Sub-functions:
1. Sum of the daily travel time
Sub-function of the daily travel time function. Indicates the sum (Bike 1 and Bike 2) of the daily travel time traveled up to now. Range: 0 - 999:59 h (up to 9:59:59 seconds are also displayed, after that only hours and minutes)

2. Total travel time
Sub-function of the daily travel time function. Indicates the accumulated total time traveled up to now. Range: 0 - 999:59 h (up to 9:59:59, seconds are also displayed, after that only hours and minutes)

3. Sum of the total travel time
Sub-function of the daily travel time function. Indicates the sum (Bike 1 and Bike 2) of the total travel time traveled up to now. Range: 0 - 999:59 h (up to 9:59:59, seconds are also displayed, after that only hours and minutes)

Note: On reaching the maximum value with the functions daily travel time and sum of the daily travel time, the value is automatically reset to zero for these functions. Simultaneously, the daily kilometers are also reset to zero. On reaching the maximum value with the total travel time function, the total travel time and the total kilometers are also automatically reset to zero.

Stopwatch (TM - flashing)
Here, the stopwatch can be started and stopped (by pressing the right button for 3 sec.). Range: 0 - 9:59:59 h
The stopwatch is reset to zero by pressing both buttons for 3 sec. in this function. If the daily values of a bike are reset, the stopwatch is also automatically reset to zero.

Since the stopwatch runs independently of the bike (for Bike 1 and Bike 2), it is not possible to change between bike1 and bike 2 in this function and likewise no bike (**⓪** or **⓪**) is indicated in the display to the left above. After starting the stopwatch, a switch into every other function can be made whilst the stopwatch continues in the background.

If no speed transmitter has yet been initialized, the initialization display is indicated instead of the next function (see adjusting mode Chap. 3.3).

Average speed (AV)
Indicates the average speed. Range: 0 - 999 km/h or 624 mph (dependent on the wheel circumference adjusted)

Sub-function:
1. Maximum speed
Sub-function of the average speed function. Indicates the highest speed traveled up to now (with the bike adjusted). Range: 0 - 999 km/h or 624 mph (dependent on the wheel circumference adjusted)

2. Maximum speed Bike 1 or Bike 2
Sub-function of the average speed function. Indicates the highest speed traveled up to now in total and also with which bike it was achieved. Range: 0 - 999 km/h or 624 mph (dependent on the wheel circumference adjusted)

Time
Indicates the current time. Range: 00:00 - 23:59 or 00:00 - 12:00 AM/PM (a "P" is placed before the time in case of PM)

Sub-functions:
1. Date
Sub-function of the time function. Indicates the current date (leap years are considered). With 24-hour display in the format TT MM (Day/Month), with the 12-hour display in the format MM TT (Month/Day).

2. Year
Sub-function of the time function. Indicates the current year.

The following function appears only if the cadence was switched on in the adjusting mode and a cadence transmitter was initialized.

Cadence
Indicates the current cadence. Range: 20 - 260 rotational motions per minute

Sub-functions:
1. Average cadence
Sub-function of the cadence function. Indicates the average cadence.

2. Maximum cadence
Sub-function of the cadence function. Indicates the maximum cadence achieved.

AutoScroll function
Indicates the following values in 3 sec. cycle in the lower display (in this case, the symbol appears to the left in the display below):

Daily kilometers - Travel time - Average speed - Cadence (if switched on)
The AutoScroll function is ended by short pressing of the left button.

7.9 Troubleshooting

Problem
Faulty display or no indication in the display
No reaction from the pushbuttons
Instantaneous speed is not displayed
Speed too high or too low
Cadence is not displayed
Manual changeover to 2nd bike does not function
Initialization runs only very slowly and is then interrupted with 'Error'

Remedy
- Press AC button on the underside of the device once or repeatedly
Caution: Repeating the AC button for 3 sec. deletes all values and adjustments
- Check and/or renew battery
- Check transmitter and magnet for correct installation
- Check whether magnet is correctly mounted on the spoke (directly opposite the marker of the transmitter with max. 3 mm separation distance)
- Transmitter battery empty or transmitter defective
- Check distance between handlebar bracket and transmitter (max. 2 m)
- Check adjusted wheel circumference
- Check unit of measure
- Check whether switched on in the adjusting mode
- Check transmitter and magnet for correct installation
- Transmitter battery empty or transmitter defective
- Check whether the speed is at zero (only then is a changeover possible)
- Transmitter battery empty or transmitter defective
- Transmitter is already initialized for other bike. If, in spite of this, the transmitter should be initialized for this bike, a total reset must be made (press AC button for 3 sec.), so that the already existing initialization is deleted.
Caution: With this, all settings and total values are also deleted!

Automatic transmitter search does not start when bike is in motion/moved.
- **CM 619** is not seated (or is not seated correctly) on the handlebar bracket
- A transmitter has already been received (SPD 0 in the display), which can happen e.g., when a change is made from one bike to another. As long as the **CM 619** is still located in the area of the first transmitter, the indication 0 remains in the display. Only when the **CM 619** is outside of the range of the first transmitter does the indication " - " appear. With the next movement, the transmitter search then starts automatically.

Individual values (e.g. distance or average speed) still change at the end of the tour, although the wheel is at a standstill and displays the speed 0.
- The **CM 619** has a built-in correction function, so that all values are checked again at the end of the tour (if no further signal comes in - SPD 0 in and corrected, where appropriate. It can happen through this correction function that, at the end of a tour, individual values change once again - both Up and Down.

8. Guarantee
We offer a guarantee for 24 months from the date of purchase on the **CM 619**. The guarantee is limited to material and processing faults. The batteries are excluded from the guarantee. The guarantee is valid only if the computer, with accessories, has been handled and maintained carefully and according to operating instructions. To return the **CM 619** under conditions/terms of the guarantee, **please refer to your dealer, your local distributor** or send the computer with the proof of purchase(date) and all accessories, and with sufficient postage, to:

CICLO SPORT SERVICE
K. W. Hochschormer GmbH
Konrad-Zuse-Bogen 8
D-82152 Krallring
Phone: 0049 180 5 00 47 43 (EUR 0,12 min.)
Fax: 0049 89 / 714 07 83
E-Mail: ciclo-service@ciclosport.de

Please read through the operating manual again carefully before sending in the device and check the battery. In case of valid guarantee claims, the repaired device or a replacement device will be returned free of charge.

Repair
If your **CM 619** is sent in for repair (or battery change) or if a