

m4WL

VDO
CYCLECOMPUTING



Installation video
Operating video
Settings video

www.vdocyclecomputing.com/service

Preface

Congratulations

In choosing a VDO computer, you have opted for high-quality device with first rate technology.

To optimally use the computer, we recommend that you read this manual carefully. It contains full operating instructions and many useful tips.

We hope you enjoy cycling with your VDO computer.

Cycle Parts GmbH

Pack contents

First, please ensure that the contents of this pack are complete:

- 1 VDO computer
- 1 battery for the computer
- 1 speed transmitter, battery installed
- 1 handlebar bracket
- 1 spoke magnet (clip magnet)
- cable ties for attaching the bracket and the transmitter
- 1 quick-start instruction manual

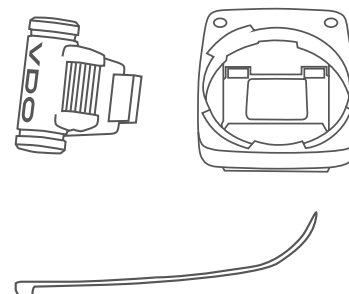
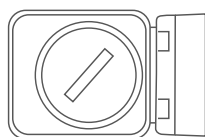
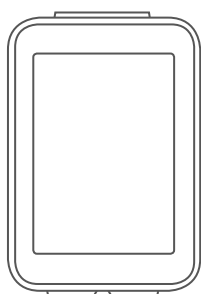


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Display

The VDO M4 WL has a large, easy-to-read display that can be divided into **four areas**.

Area 1:

The top line of the display permanently indicates the current altitude.

Area 2:

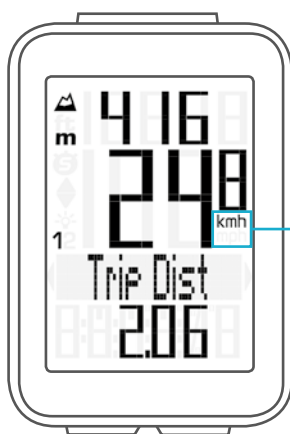
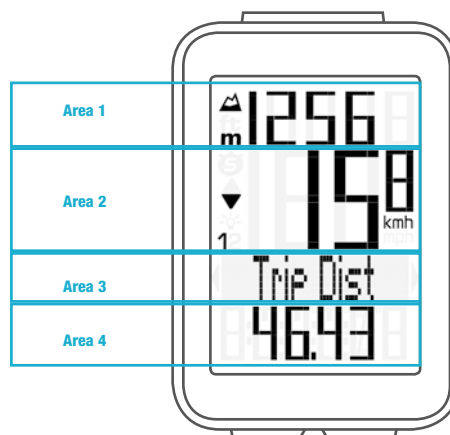
The next line permanently shows the current speed.

Area 3:

The middle line uses clear text to display a description of the selected function.

Area 4:

The bottom line of the display shows the value for the selected function.



On the right of the display, under the speed indicator, the unit kmh or mph is displayed.

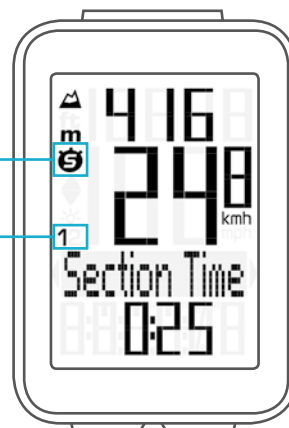
Display

On the left of the display, next to the speed indicator, you will find the icons:

“**S**”: the icon is ON if the trip section counter has been started. A more detailed description of the trip section counter can be found on page 42.

“**1**” or “**2**”

The VDO M4 WL can be used on two bikes. The indicator icons 1 and 2 show whether your VDO M4 WL is currently using the settings for bike 1 or bike 2.



“UP/DOWN arrow” ▲ ▼

The arrows indicate whether you are currently travelling quicker or slower than your current average speed.

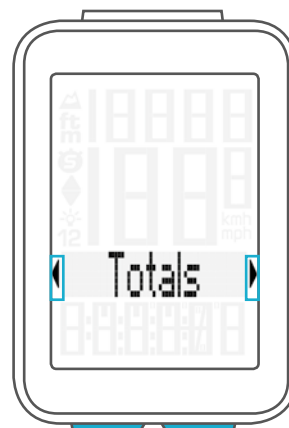
Light ON/OFF ☀

This icon indicates whether the display backlight mode is switched on or off.



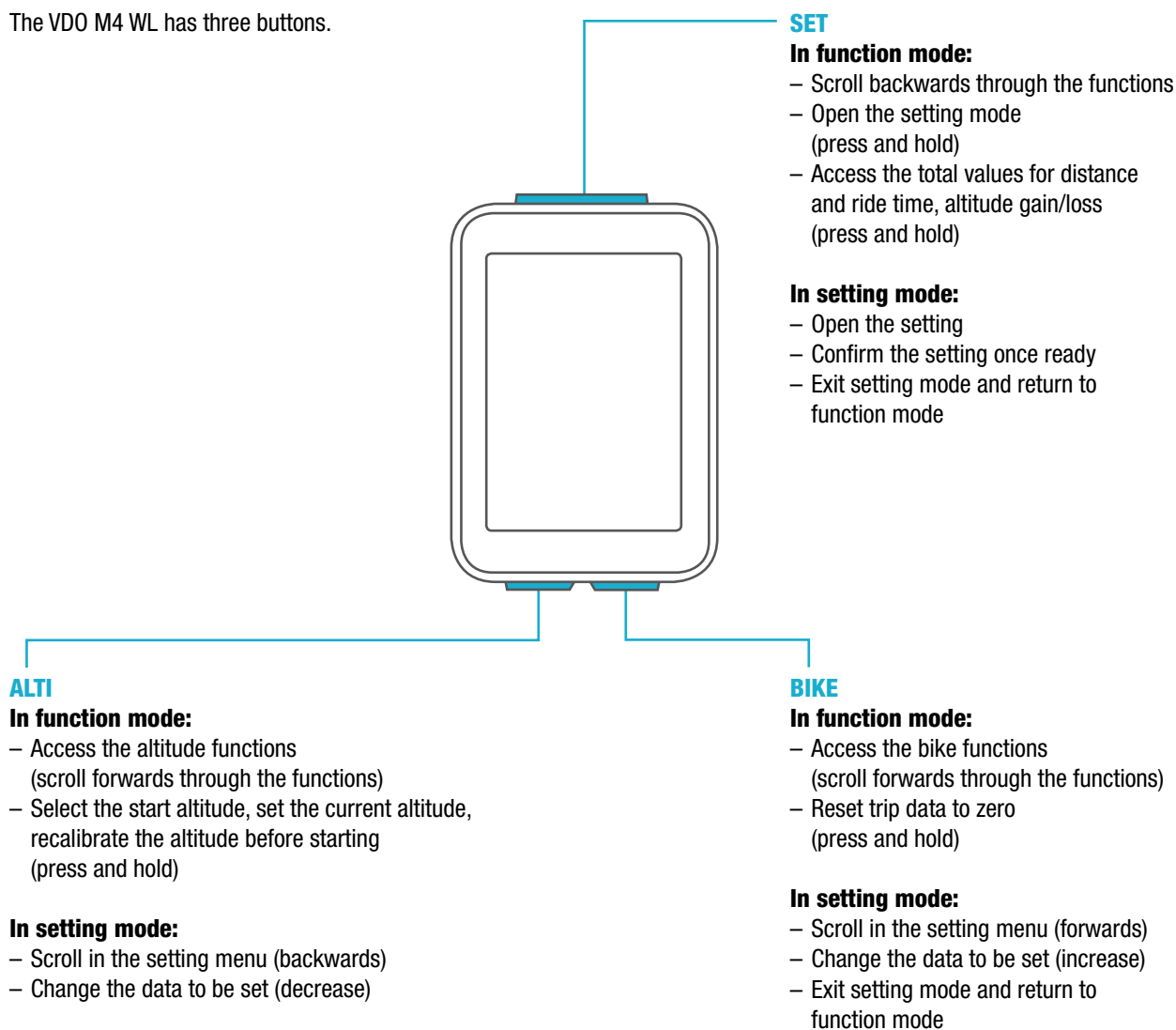
Left/right arrows next to the description of the selected indicator function.

In setting mode, these arrows indicate that you can scroll by pressing the BIKE or ALTI button.



Buttons

The VDO M4 WL has three buttons.

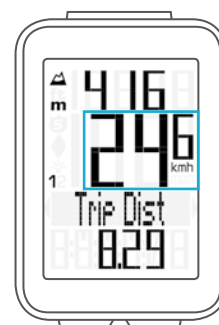


Functions

The VDO M4 WL has the following functions:

Current speed

The current speed is permanently shown on the display. With a wheel circumference of 2,155 mm, the maximum possible speed is 199 kmh or 124 mph.



Current altitude

The current altitude is permanently shown on the display.



BIKE button functions

The **BIKE** button can be used to access the following functions:

Current distance

The current distance (distance for the current trip) counts up to 9,999.99 km or miles. If this maximum value is exceeded, the counter restarts the current distance count at zero.



Current ride time

The current ride time (ride time for the current trip) counts up to 99:59:59 HH:MM:SS. If this value is exceeded, the ride time counter restarts at zero.

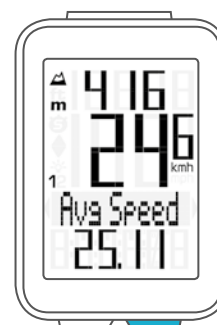


BIKE button functions

Average speed

for the current trip

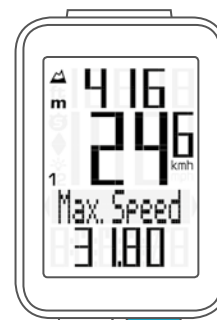
The average speed is specified to two decimal places.



Maximum speed

for the current trip

The maximum speed is specified to two decimal places.



Section time

The VDO M4 WL has a trip section counter.

The trip section counter is like a stopwatch.

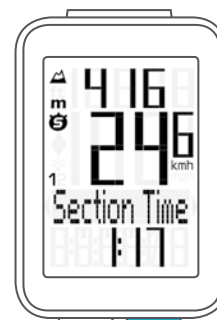
If the trip section counter is running, the **section time** is recorded, as on a stopwatch.

When the trip section counter is running, the **section distance** is also recorded.

The trip section counter is started and stopped by pressing the **BIKE + SET** buttons (simultaneously press and both buttons – do NOT hold).

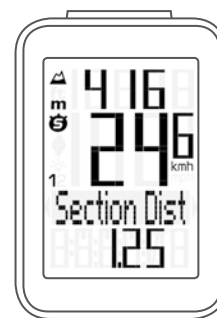
ATTENTION: the trip section counter stops automatically when the speed is zero.

A detailed description of the trip section counter can be found on page 42.



Section distance

Shows the distance travelled while the trip section counter is activated.



BIKE button functions

Navigator

The navigator is a second, completely independent trip distance counter.

The navigator is used to measure partial trip sections. The navigator is particularly helpful when riding a route shown in a road book.

The navigator can:

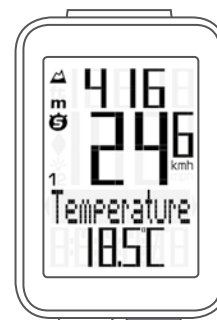
- be reset to zero as often as desired and independently of the trip distance counter
- be preset to a specific value
- count forwards or backwards from this value

Information on how to operate the navigator can be found on page 40.



Temperature

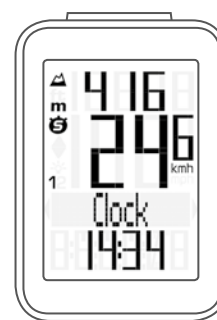
The VDO M4 WL has a temperature indicator. The temperature is displayed in increments of 0.1 degrees.



Time

The current time is displayed in 24 H or 12 H mode.

Information on how to set the time can be found on page 26.



ALTI button functions

Press the **ALTI** button to access the following altitude information:

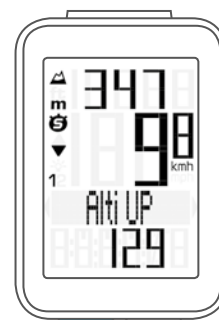
Current gradient uphill/downhill

Displays the gradient uphill/downhill as a percentage.



Altitude gain

Displays the altitude gain for the current trip.



Maximum altitude

Displays the maximum altitude reached on the current trip. The value is updated if a new, higher altitude is reached.



Average gradient uphill

Shows you the average gradient uphill for the current trip.



Maximum gradient uphill

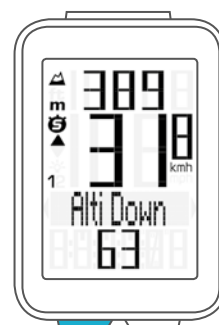
Shows you the maximum gradient uphill you have recorded so far on the current trip.



ALTI button functions

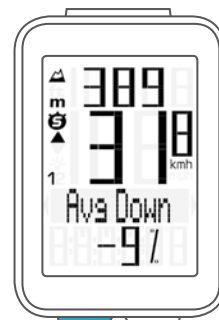
Altitude loss

Displays the altitude loss for the current trip.



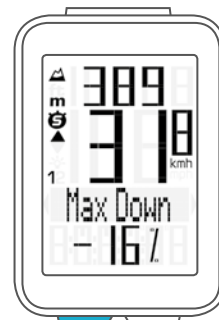
Average gradient downhill

Shows you the average gradient downhill for the current trip.



Maximum gradient downhill

Shows you the maximum gradient downhill you have recorded so far on the current trip.
The value is updated if you ride down a steeper section at a later point.



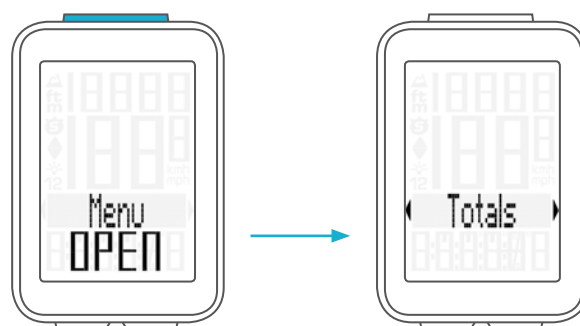
Accessing the total values

The total values for the distance travelled, the ride time and the altitude data are accessed separately from the data for the CURRENT trip.

To access the totals, **press and hold** the **SET button** until the menu opens.

Press the **SET button** to open the **total values** screen.
Press the **BIKE** or **ALTI button** to scroll in the **total values (Totals)**.

The total distance 1 (sum of all individual trips with bike 1) is displayed first.



Accessing the total values

Total distance 1

(Sum of all trips on bike 1)

The total distance counts up to 99,999 km or miles.

If this value is exceeded, the total distance counter restarts at zero.

If the unit is switched from miles to km and the conversion result is greater than 100,000 km, the total distance counter is reset to zero.

Press the **BIKE button** to scroll to

total ride time.

(Sum of all trips)

The total ride time counts up to 9999:59 HHHH:MM.

If this value is exceeded, the total ride time counter restarts at zero.



Press the **BIKE button** to scroll on to

year altitude gain for bike 1



Press the **BIKE button** to scroll on to

year altitude loss for bike 1



If you have also used bike 2, when continuing scrolling by pressing the BIKE button, the values for bike 2 are also displayed here.

The total values are also found here (sum of the values for bike 1 plus bike 2)

Press (and hold) the SET button to return from the total values information to the normal function mode.

Operation while cycling

While cycling, the display functions can be accessed by pressing the **BIKE** button and the **ALTI** button (scroll forwards through the functions).

Pressing the **BIKE** or **ALTI** button shows the next function on the display.

By pressing the **SET button** you can also **scroll backwards** through the functions. This enables you to quickly display the desired function.

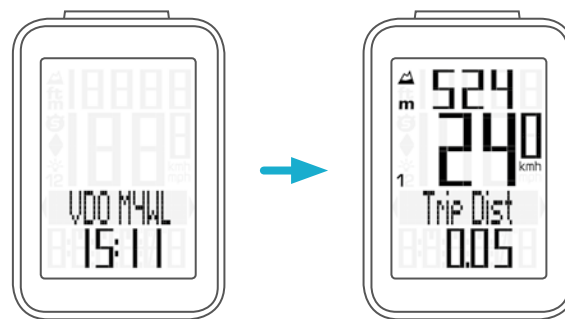


Sleep mode

If you take a break and the **M4 WL is in the bracket**, the computer switches to **sleep mode** after **five minutes**. The model name **VDO M4WL** and the time appear on the display.

If you set off again after a break, the VDO M4 WL has an **auto-start function**.

The VDO M4 WL instantly switches back to the function mode and the current speed and distance are once again displayed.



Attaching the handlebar bracket

You can attach the computer to the right or left of the handlebars or in the centre on the stem. Attach the handlebar bracket in the corresponding position.

STEP 1

Decide whether you want to attach the computer to the handlebars or the stem.

STEP 2

Rotate the foot of the handlebar bracket by 90° accordingly. To do so, undo the screws in the bracket, remove the foot and rotate it 90° then insert and tighten the screws again.

Attention: do not overtighten the screws.

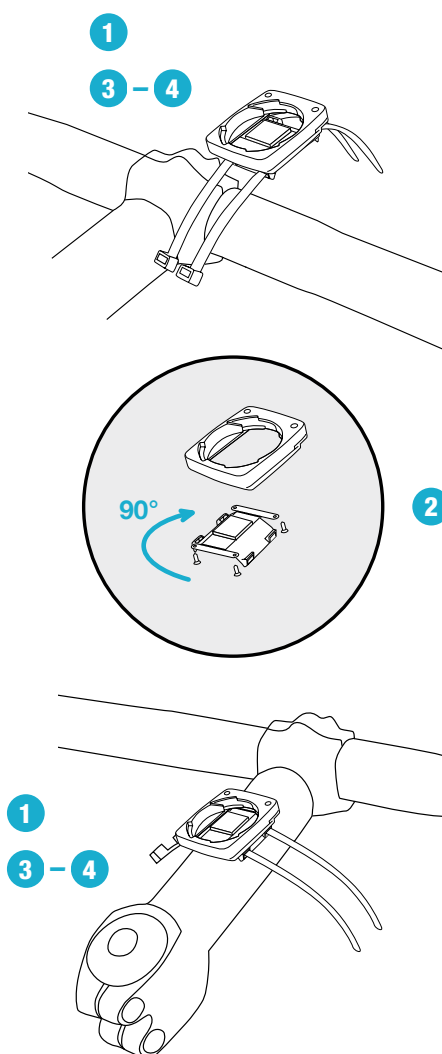
STEP 3

Guide the cable ties through the slot in the handlebar bracket, place around the handlebars or the stem and pull (do not pull tight just yet).

STEP 4

For handlebar attachment: align the computer angle to achieve optimum readability. Now pull the cable ties tight.

Use clippers to snip off protruding ends.



Attaching the speed transmitter

The transmitter can be attached to the fork leg on the right or left.

Note:

If you have attached the computer to the stem or the left of the handlebars, the speed transmitter **MUST** be attached to the **LEFT** fork leg.

STEP 1

Place the rubber shim under the transmitter. Fit the transmitter on the same side of the forks where you later want to fit the computer to the handlebars (right or left) using the cable ties supplied (loosely at first, do not pull tight just yet).

ATTENTION: The cross-hatched marking on the lid of the transmitter's battery compartment must point toward the spokes.

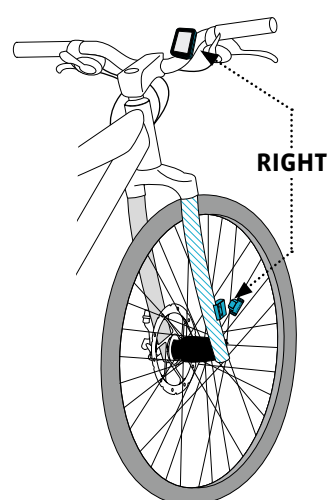
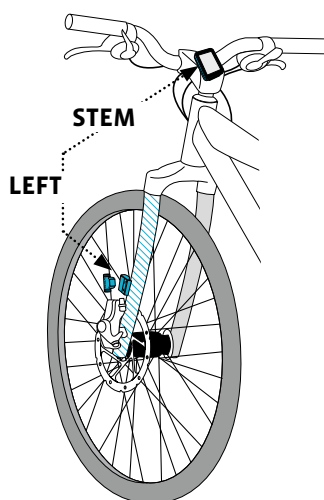
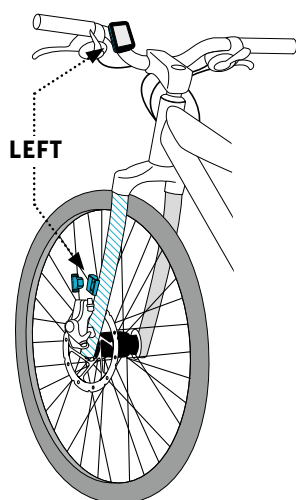
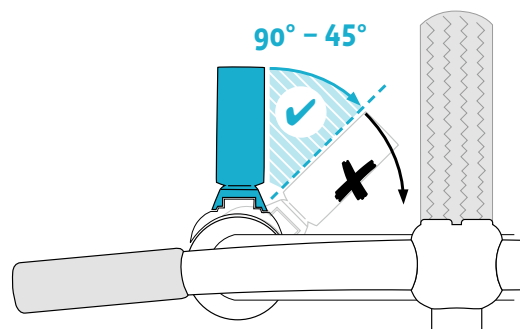
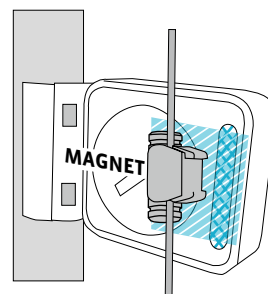
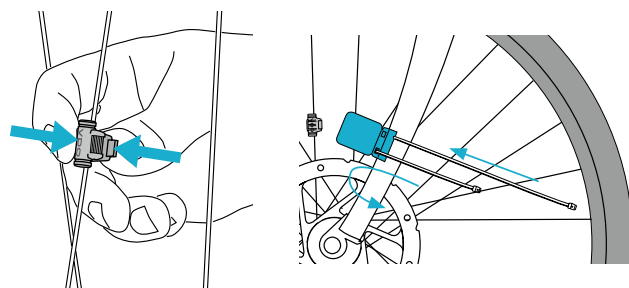
Depending on the available space, the transmitter can be mounted along the front of the fork, on the inside of the fork, or the back of the fork.

STEP 2

Place the spoke magnet around an outside spoke. The VDO logo of the rod-shaped magnet core should point toward the transmitter. Align the magnet with the cross-hatched sensor marking on the transmitter at a distance of 1-5 mm.

STEP 3

Align the transmitter and magnet in their final positions and fasten them in place: pull the cable ties tight and push the magnet in firmly. The transmitter should be folded down at a maximum angle of 45° to the spokes. If you cannot achieve this angle, move the transmitter down along the fork leg towards the hub until you have reduced the angle to less than 45°.



Inserting the computer into the bracket

The VDO twist-click system securely connects the computer to the handlebar bracket.

How to insert the computer:

STEP 1

Place the computer into the bracket in a 10 o'clock position.

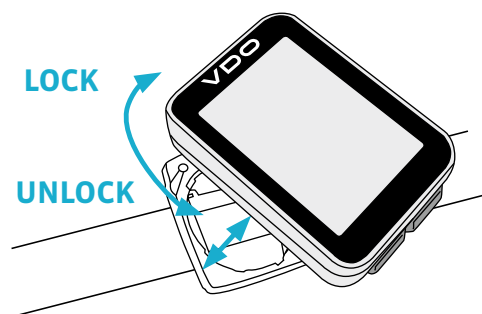
STEP 2

Rotate the computer to the right into the 12 o'clock position and click it into the bracket system. A noticeable resistance must be overcome to move it into place.

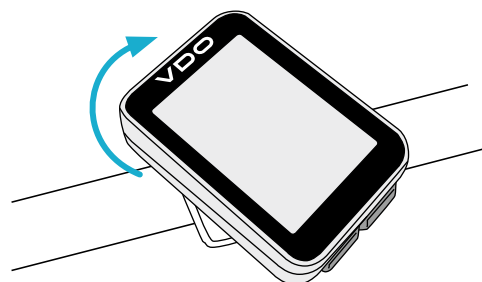
STEP 3

To remove the computer, rotate it to the left (without pushing or pulling).

Memory aid: **R**igid to the **R**ight, **L**oose to the **L**eft



1. LOCK 2. CLICK



2. UNLOCK



Pairing the transmitter (initial use)

The VDO M4 WL automatically pairs the transmitter.

Once the computer has been rotated into place in the bracket, it starts searching for the transmitter.

The transmitter search is identified by the flashing digits for:

- Speed
- Heart rate (if the heart rate option is activated)
- Cadence (if the cadence option is activated)

The VDO M4 WL has an automatic bike recognition function. Depending on whether you are using bike 1 or bike 2, the data is recorded for bike 1 or bike 2.

ATTENTION: When other radio signals interfere during the pairing function, the display shows the message **“Too Many Signals”**.

Confirm this message by pressing any key. You will then need to leave this location and move to another location. Untwist the computer from the handlebar bracket. Then reinsert the computer into the handlebar bracket. The computer will now attempt another pairing.

Potential source of interference:

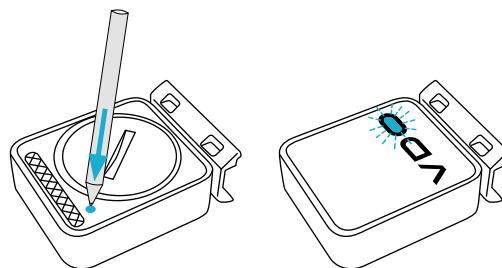
- LED lights
 - Mobile telephone
 - GPS receiver
 - WLAN
 - Anti-theft security systems inside the store
- These sources can interfere with the pairing.

ATTENTION: when using the transmitter for the first time, the bike recognition switch must be set to either BIKE 1 or BIKE 2. Only then will the automatic bike recognition work.

Press and **HOLD** the button until the LED flashes.

Green flashes once = bike 1 is selected

Red flashes twice = bike 2 is selected



Function testing

Once the transmitter has been attached, check that it functions correctly.

How to test the transmitter:

- Insert the computer into the bracket.
The speed indicator flashes. The computer now searches for its speed transmitter.
- Lift and spin the front wheel.
The green LED on the transmitter flashes several times.
- A speed should now be displayed on the computer.

If no speed is displayed, there can be several reasons for this. The possible reasons are described in the **“Trouble-shooting”** section.

Settings – language

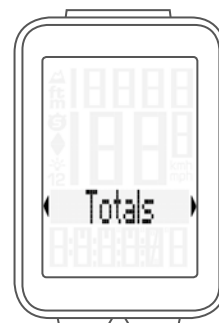
The following display languages can be selected for the VDO M4 WL:

- German
- English
- French
- Italian
- Spanish
- Dutch
- Polish

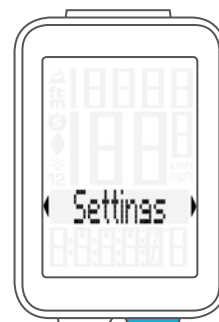
How to select a language:

Press and hold the SET button until the settings menu opens.

The **Totals (total values)** first appear on the display.

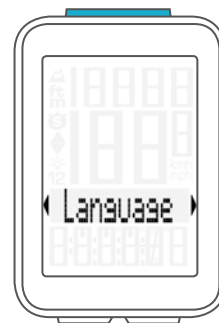


Press the **BIKE button** to scroll to **Settings**.



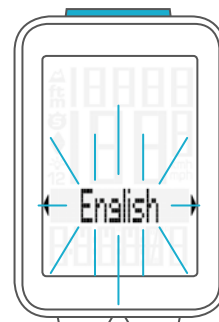
Press the **SET button** to open the settings.

"Language" appears on the display.



Press **SET** to open the **language** settings.

"English" flashes.



Settings – language

You can now press the **BIKE** or **ALTI** button to select a different language.



Press the **SET** button to confirm your language setting. The response “**Set OK**” appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI** button to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button.**

The settings menu closes.
The VDO M4 WL returns to function mode.



Settings – unit

Use the unit settings to specify the measurement formats for:

- Speed (kmh or mph)
- Altitude (metres or feet)
- Temperature (C or F)
- Time (24-hour or 12-hour with AM/PM)

How to set the units:

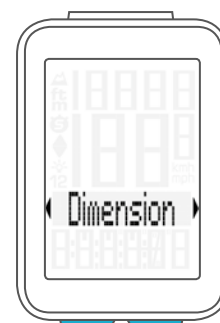
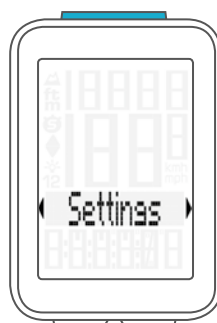
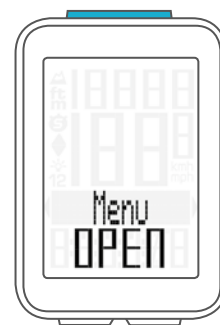
Press and hold the SET button until the settings menu opens.

Press the **BIKE button** to scroll from **Totals** to **Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

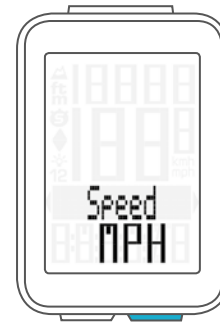
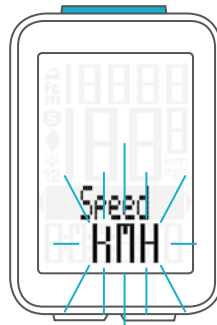
Press the **BIKE** or **ALTI button** to scroll to the setting for the **Dimension (unit)**.



Press the **SET button** to open the unit setting.
First set the unit for the **speed**.

“KMH” flashes in the bottom line of the display.
Press the **BIKE button** to change the unit to **“MPH”**.

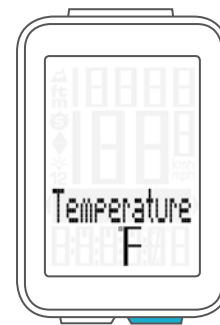
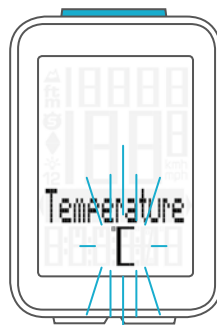
Press the **SET button** to confirm the setting.



The setting for the **temperature** unit next appears on the display. Set whether the temperature should be displayed in **Celsius** or **Fahrenheit**.

Press the **BIKE button** to make your selection.

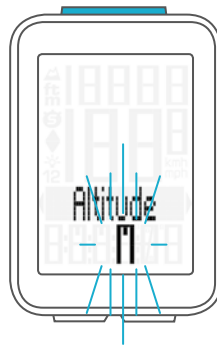
Press the **SET button** to confirm your selection.



You can now specify the **altitude** unit – metres or feet.

Press the **BIKE button** to switch from **metres** to **feet**.

Press the **SET button** to confirm the setting.

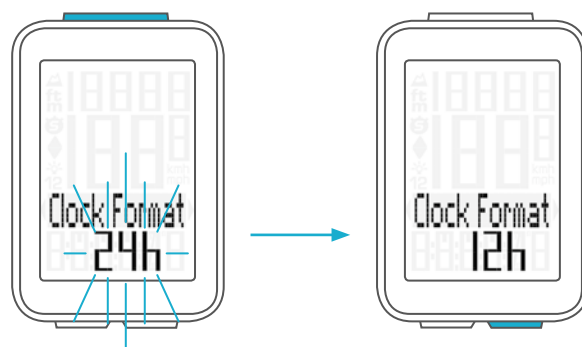


Settings – unit

The setting for the **time format** now appears on the display. Here, you can select a **24-hour** format or a **12-hour** format with AM/PM.

Press the **BIKE button** to make the selection.

Press the **SET button** to confirm the selection.



The response '**Set OK**' appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – wheel circumference/wheel size

You can set the roll circumference of your wheel in millimetres on the VDO M4 WL or select the applicable tyres from a tyres table.

The more accurate this setting, the more accurate your speed indicator and the measurement of the distance you have travelled. You can find the values for your tyres in the tyre size table and set these in the device.

ATTENTION: the values in the table are approximations only. The actual values can deviate from the values in the table depending on the manufacturer and the tyre tread.

If your tyre size is not listed in the table, you can accurately measure the roll circumference.

How to measure the roll circumference:

STEP 1

Stand your bike up and position the wheel to which you want to attach the sensor so that the valve is directly on the ground. Ensure that the tyres are fully pumped up in accordance with the usage instructions. Mark the position of the valve on the ground with a line or adhesive strip.

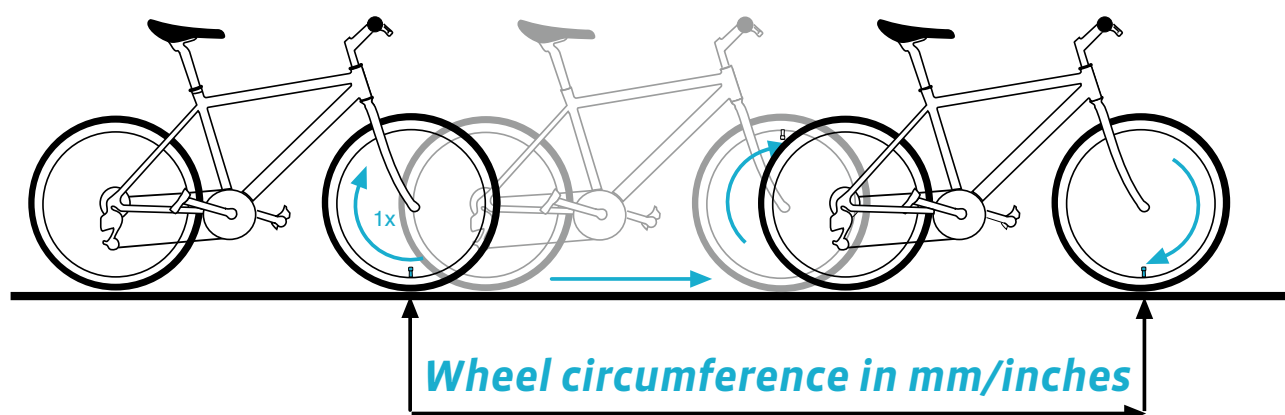
STEP 2

Now push your bike forwards in a straight line until the valve is back on the ground after one rotation. Again mark the position of the valve on the ground with a line or adhesive strip.

STEP 3

The distance between the two marks corresponds to your wheel circumference or wheel size in millimetres.

Tyre size	ETRTO	KMH Wheel circumference in mm	MPH Wheel circumference in inches
16 x 1.75	47-305	1,272	50.1
20 x 1.75	47-406	1,590	62.6
24 x 1.75	47-507	1,907	75.1
26 x 1.5	40-559	2,026	79.8
26 x 1.75	47-559	2,070	81.5
26 x 1.9		2,089	82.2
26 x 2.00	50-559	2,114	83.2
26 x 2.10	54-559	2,125	83.7
26 x 2.25	57-559	2,145	84.4
26 x 2.35	60-559	2,160	85.0
26 x 2.40	62-559	2,170	85.4
28 x 1.5	40-622	2,224	87.6
28 x 1.6	42-622	2,235	88.0
28 x 1.75	47-622	2,268	89.3
29 x 2.10	54-622	2,295	90.4
29 x 2.25	57-622	2,288	90.1
29 x 2.40	62-622	2,300	90.6
650 B		2,100	82.7
700 x 18C	18-622	2,102	82.8
700 x 20C	20-622	2,114	83.2
700 x 23C	23-622	2,095	82.5
700 x 25C	25-622	2,146	84.5
700 x 30C	30-622	2,149	84.6
700 x 32C	32-622	2,174	85.6
700 x 38C	38-622	2,224	87.6



Settings – wheel circumference/wheel size

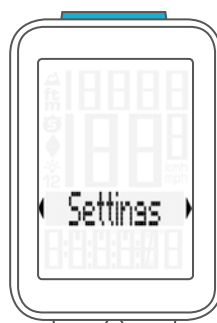
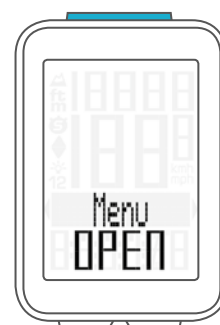
How to set your wheel circumference:

Press and hold the **SET** button until the settings menu opens.

Press the **BIKE** button to switch from **Totals** to **Settings**.
Press the **SET** button to open the settings.

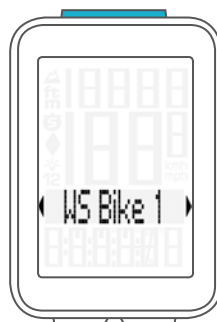
“Language” appears on the display.

Press the **BIKE** or **ALTI** button to scroll to the setting for the **Wheelsize**.



Press the **SET** button to open the setting for the **wheel size**.

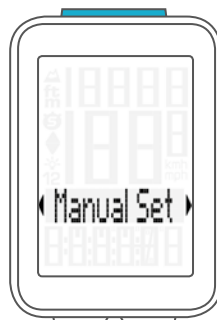
You can set the wheel size separately for bike 1 and bike 2.
Press the **BIKE** button to scroll from the setting for bike 1 to the setting for bike 2.



Press the **SET** button to open the setting (description here is for bike 1).

In the display, you can now choose whether you want **to manually set the wheel size in millimetres/inch** or **select the appropriate tyres from a tyre list**.

Press the **BIKE** button to make the selection.
Confirm the selection by pressing the **SET** button.



Settings – wheel circumference/wheel size

Manual setting by entering the roll circumference in millimetres/inch

For mm: the first two digits (in the example “21”) flash. Press the **BIKE** or **ALTI** button to set these digits to the desired value.

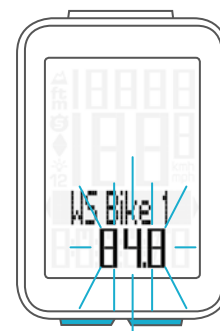
For Inch: The Inch value is flashing. Press the **BIKE** or the **ALTI** button to set the digits to the desired value

Press the **SET** button to confirm your setting.

mm-Setting



Inch-Setting



For mm: The third digit now flashes and is ready to be set. Press the **BIKE** or **ALTI** button to set this digit.

Press the **SET** button to confirm your setting.



For mm: The final digit on the right now flashes. Press the **BIKE** or **ALTI** button to set this digit.



Press the **SET** button to confirm your setting. Your wheel circumference setting is now complete. The response “**Set OK**” appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI** button to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – wheel circumference/wheel size

Setting the wheel size using the tyre list

Open the wheel size settings via the tyre list by pressing the **SET button** (see page 22).



SELECT appears on the display.



Press the **BIKE** or **ALTI button** to scroll through the tyre list until your tyres are displayed (in the example shown 26 x 2.35)



Press the **SET button** to confirm the selection.
The response "**Set OK**" appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**.
The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – clock

On the VDO M4 WL, you can set the clock in 12-hour AM/PM format or 24-hour format.

Specify the desired time format in the unit settings (see page 20).

How to set the clock:

Press and hold the SET button until the settings menu opens.

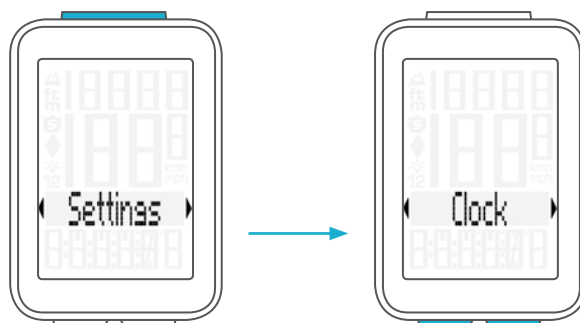
Press the **BIKE button** to move from **Totals to Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

Press the **BIKE** or **ALTI button** to scroll to the setting for the **Clock**.

Press the **SET button** to open the setting for the **clock**.

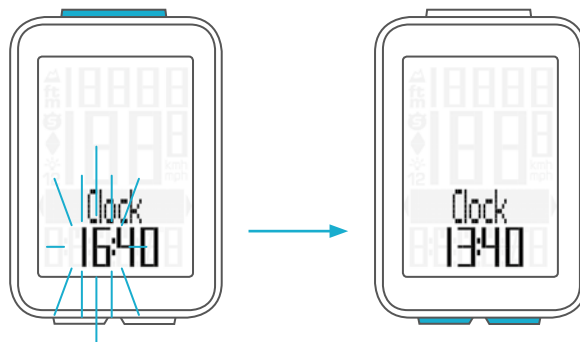


The hour digits flash.

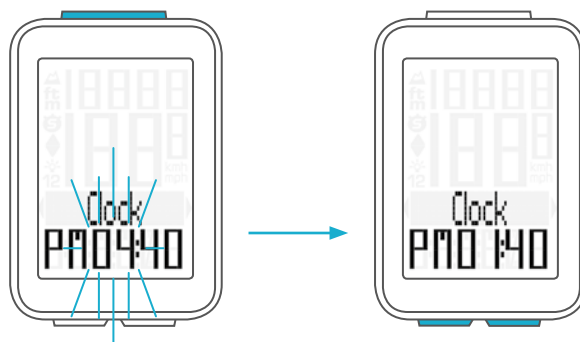
Press the **BIKE** or **ALTI button** to change the setting for the **hours**.

Press the **SET button** to confirm your setting.

Display in 24-h format



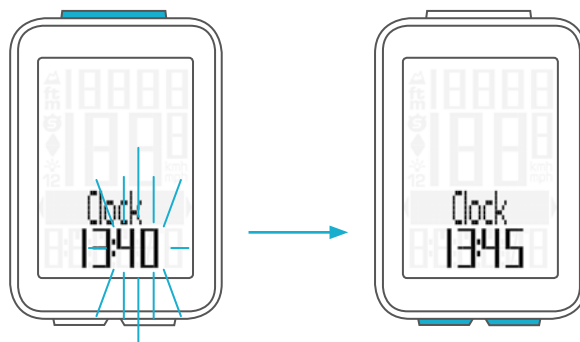
Display in 12-h format



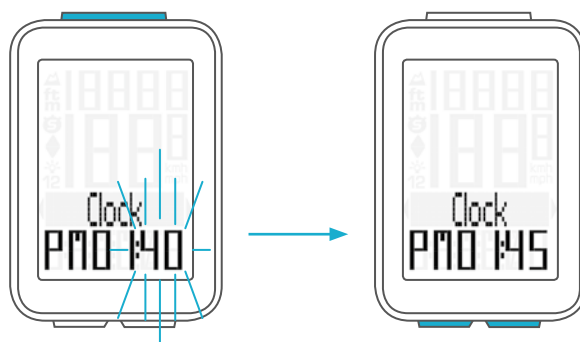
Settings – clock

The minute digits now flash on the display.
Press the **BIKE** or **ALTI** button to set the **minutes**.

Display in 24-h format



Display in 12-h format



Press the **SET** button to confirm your setting.
The response “**Set OK**” appears on the display.

If you want to configure further settings,
press the **BIKE** or **ALTI** button to access these.

If you do not want to configure any further settings,
press and hold the SET or BIKE button.
The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – start altitude

You can enter two different start altitudes on the M4 WL. Start altitude 1 can be that of your home, start altitude 2 can be that of your holiday location.

The start altitude is required as a basis for reconfiguring the altitude measured by the air pressure sensor before starting a trip. This process is known as recalibration.

For information about recalibration, ensure you read the “Recalibrating the altitude before starting” section on page 45.

How to set the start altitudes:

Press and hold the SET button until the settings menu opens.

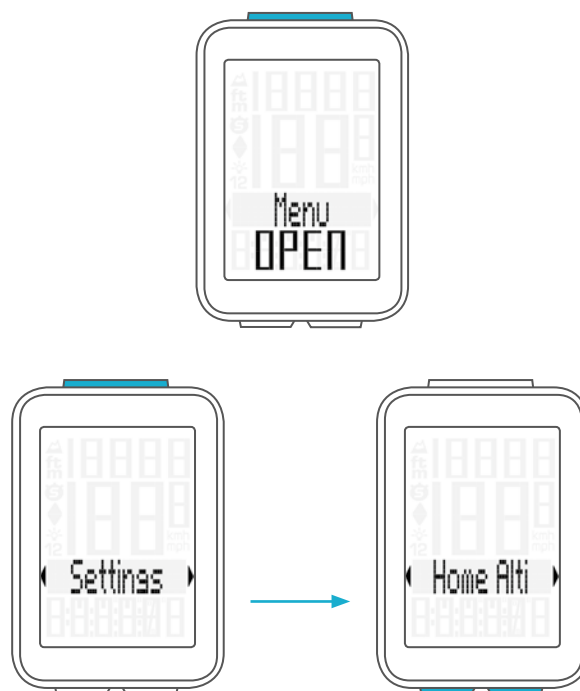
Press the **BIKE button** to switch from **Totals to Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

Press the **BIKE** or **ALTI button** to scroll to the setting for the **Home Alti (start altitude)**.

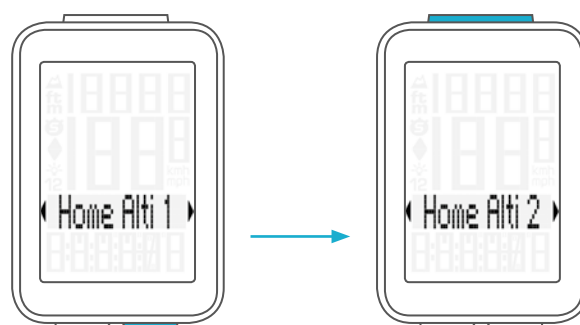
Press the **SET button** to open the setting for the **Home Alti**.



You can set two start altitudes.

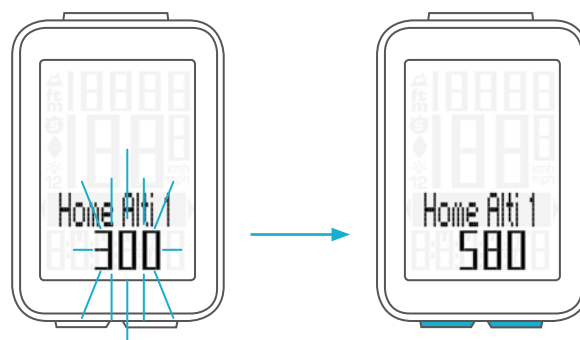
Press the **BIKE button** to select **Home Alti 1** or **Home Alti 2**.

Press the **SET button** to confirm your selection and open the settings.



The start altitude indicator (in metres or feet) flashes and is ready for entry.

Press the **BIKE button** to **increase** the value or the **ALTI button** to **decrease** the value.



Settings – start altitude

Once the correct start altitude has been set, confirm the setting by pressing the **SET button**. The response **“Set OK”** appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – current altitude

Further to the two start altitudes, it is also possible to set the current altitude.

This is necessary, for example, if you start your trip from a location other than one of the two start altitudes. Also reset the current altitude if the weather has changed during a trip and the current altitude displayed on the M4 WL does not match the altitude information displayed on a road sign, for instance.

How to set the current altitude:

Press and hold the SET button until the settings menu opens.

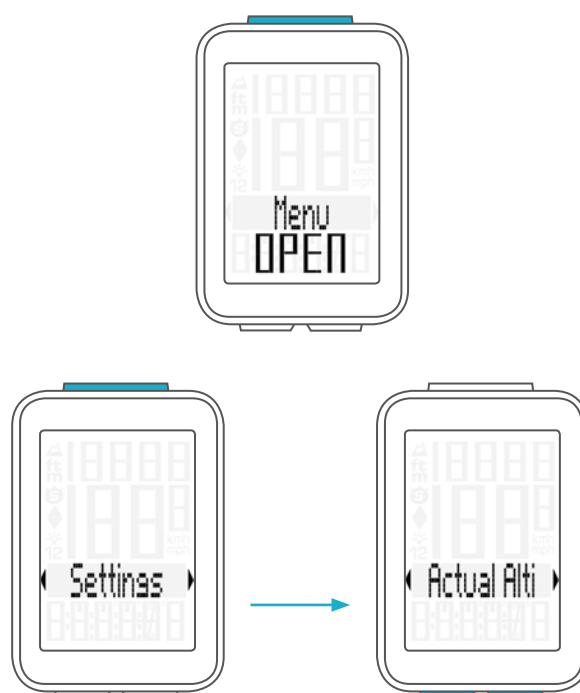
Press the **BIKE button** to move from **Totals to Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

Press the **BIKE** or **ALTI button** to scroll to the setting for the **Actual Alti (current altitude)**.

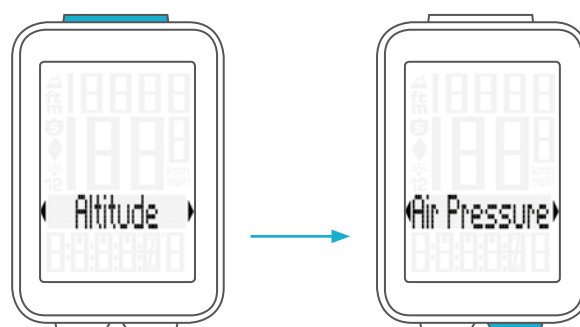
Press the **SET button** to start the settings.



Settings – current altitude

You can set the current altitude as either an **altitude in metres or feet** or by entering the **sea level pressure**.

We will first explain how to **set the current altitude by entering the altitude in metres (or feet)**.



Press the **SET button** to confirm the selection “**Altitude**”.
The setting opens.

Set Meter

Set Feet



Press the **BIKE button to increase** the value.
Press the **ALTI button to decrease** the value.



Once this value has been set, confirm the setting by pressing the **SET button**.
The response “**Set OK**” appears on the display.



Settings – current altitude

Setting the current altitude by entering the sea level pressure.

As a second option, you can also set the current altitude via the sea level pressure.

How to set the current altitude **by entering the sea level pressure**:

On the M4 WL, the sea level pressure is recalculated to the current altitude.

Details of the sea level pressure for your current location can be found on several weather websites.

Press the **SET button** to confirm the setting for the **current altitude via the sea level pressure**.

The setting opens.

The current sea level pressure is displayed.



Press the **BIKE button to increase** the value.

Press the **ALTI button to decrease** the value.



Once the correct current altitude has been set, confirm the setting by pressing the **SET button**. The response **"Set OK"** appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – total values – total distance

You can set the total distance ridden on the VDO M4 WL. For example, you can enter your data here at the start of a new cycling season. You can set the total distance separately for bike 1 and bike 2.

ATTENTION: the M4 WL has a data memory. No data is lost when the battery is replaced.

How to set the total values:

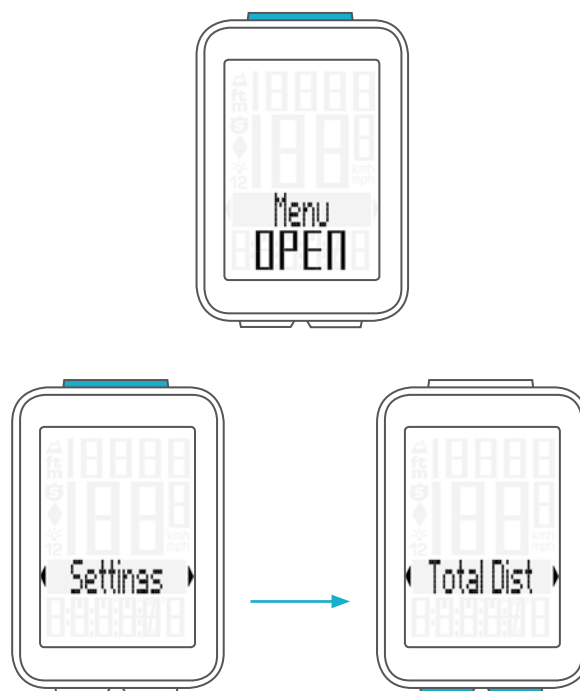
Press and hold the SET button until the settings menu opens.

Press the **BIKE button** to move from **Totals to Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

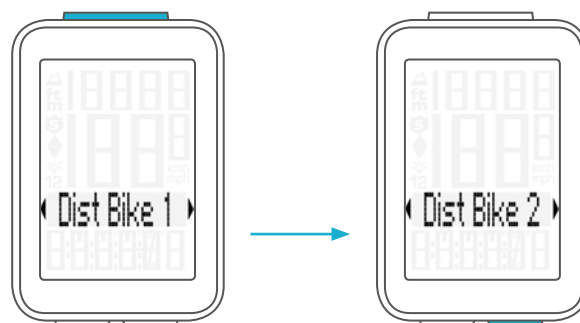
Press the **BIKE** or **ALTI button** to scroll to the setting for the **Total Dist (total distance)**.



Press the **SET button** to open the settings.

Press the **BIKE button** to select whether you want to set the total distance for bike 1 or bike 2.

Press the **SET button** to confirm the selection.



Settings – total values – total distance

The left digit flashes.

Press the **BIKE button** to **increase the digit**.

Press the **ALTI button** to **decrease the digit**.

Once this digit has been set, confirm the setting by pressing the **SET button**.

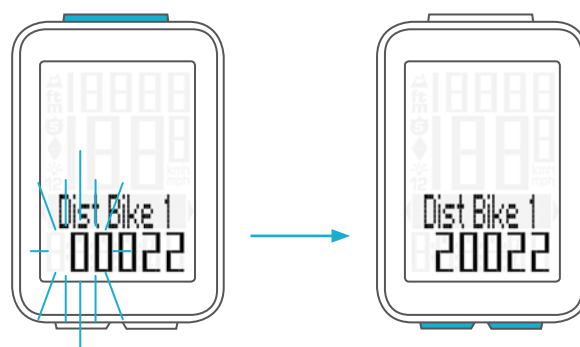
The next digit starts to flash and is ready to be set.

Press the **BIKE** or **ALTI button** to change this digit.

Once this digit has also been set, confirm the setting by pressing the **SET button**.

The next digit flashes.

Once all digits have been set, confirm the setting again by pressing the **SET button**.



The response **“Set OK”** appears on the display.
The set value is stored.

If you want to configure further settings,
press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings,
press and hold the SET or BIKE button.
The settings menu closes.

The VDO M4 WL returns to function mode.

Settings – total values – total ride time

You can set the total ride time on the VDO M4 WL. E.g. you can set your total ride time (total ride time for all trips) at the start of the new cycling season).

You can set the values separately for bike 1 and bike 2.

ATTENTION: the M4 WL has a data memory.

No data is lost when the battery is replaced.

How to set the total ride time:

Press and hold the SET button until the settings menu opens.

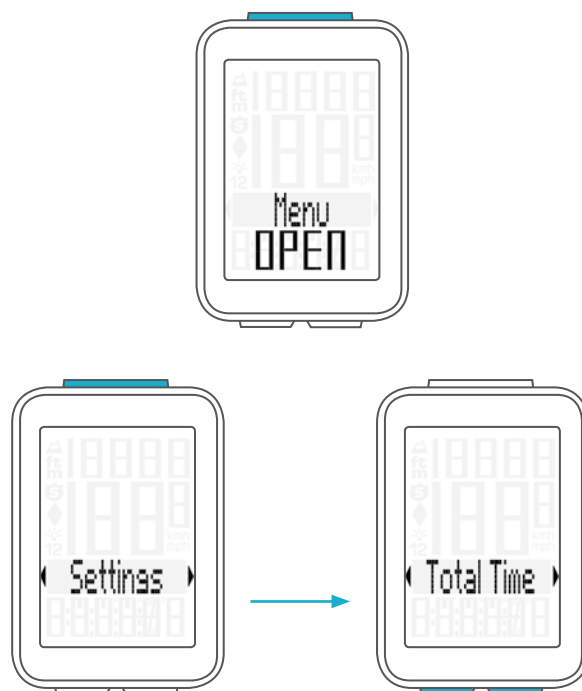
Press the **BIKE button** to switch from **Totals** to **Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

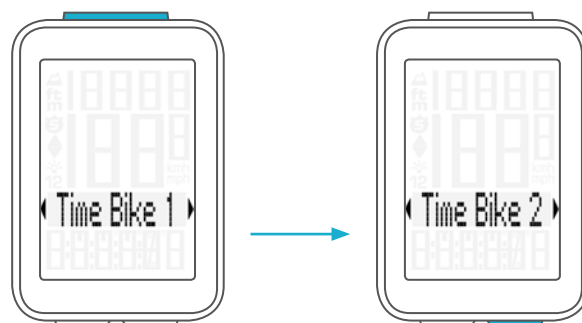
Press the **BIKE** or **ALTI button** to scroll to the setting for the **Total Time**.

Press the **SET button** to open the setting for the **Total Time (total ride time)**.



Press the **BIKE** to select whether you want to set the **total time** for **bike 1** or **bike 2**.

Press the **SET button** to confirm the selection.



The **left digit** of the **hours setting flashes** and is ready to be set.

Press the **BIKE** or **ALTI button** to set the value of this digit.

Press the **SET button** to confirm your setting.



Settings – total values – total ride time

The **next digit** on the left starts to **flash** and is ready to be set.

Press the **BIKE** or **ALTI button** to set the value of this digit.

Press the **SET button** to confirm your setting.

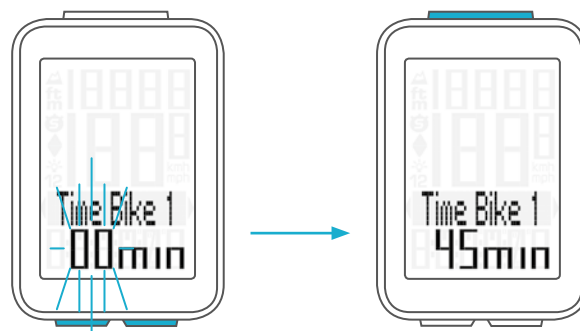
Once you have set all four digits, confirm the setting again by pressing the **SET button**.



The **setting** for the **minutes** is then opened.

Press the **BIKE** or **ALTI button** to set the minutes.

Once the minutes have been set, confirm the setting by pressing the **SET button**.



The response **“Set OK”** appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – total values – altitude gain

You can set the total altitude gain for the year on the VDO M4 WL. This can be done at the start of a new season or if you want to transfer the data from your previous cycle computer to the new VDO M4 WL.

How to set the total altitude gain for the year:

Press and hold the SET button until the settings menu opens.

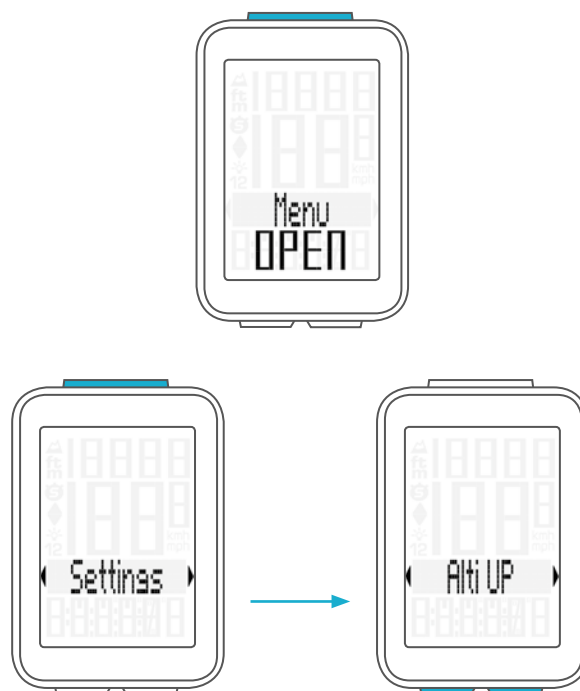
Press the **BIKE button** to move from **Totals to Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

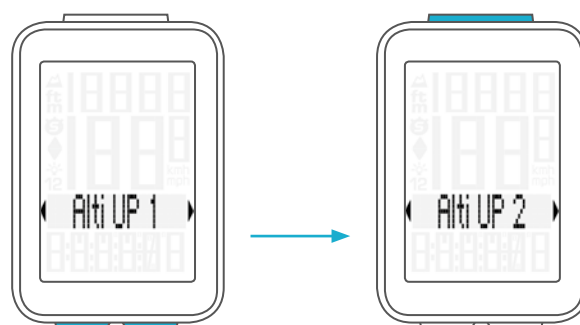
Press the **BIKE** or **ALTI button** to scroll to the setting for the **Alti UP (altitude gain)**.

Press the **SET button** to open the settings.



You can set the **altitude gain** for **bike 1** or **bike 2**. Make this selection by pressing the **BIKE** or **ALTI button**.

Press the **SET button** to open the settings.



The setting opens.

The **first digit on the left flashes**. Press the **BIKE button** to **increase** the value. Press the **ALTI button** to **decrease** the value of this digit.

Press the **SET button** to confirm the value.



Settings – total values – altitude gain

The **second digit flashes**. Press the **BIKE button** to **increase** the value. Press the **ALTI button** to **decrease** the value of this digit.

Press the **SET button** to confirm the value.

Once all the digits have been set, confirm the setting by pressing the **SET button**.



The response **“Set OK”** appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Settings – total values – altitude loss

You can set the total altitude loss for the year on the VDO M4 WL.

This can be done at the start of a new season or if you want to transfer the data from your previous cycle computer to the new VDO M4 WL.

How to set the total altitude loss for the year:

Press and hold the SET button until the settings menu opens.

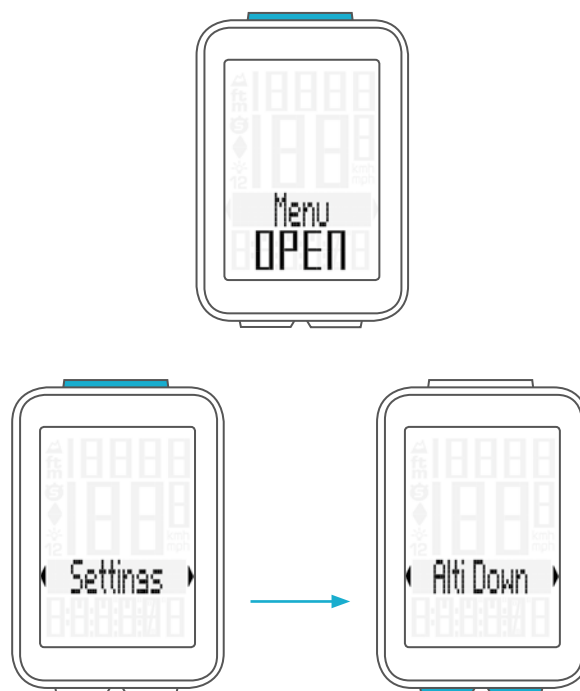
Press the **BIKE button** to move from **Totals to Settings**.

Press the **SET button** to open the settings.

“Language” appears on the display.

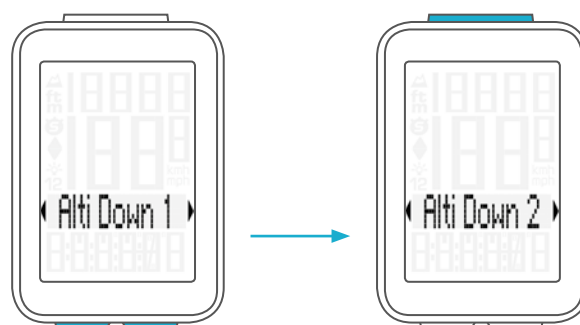
Press the **BIKE** or **ALTI button** to scroll to the setting for the **Alti Down (altitude loss)**.

Press the **SET button** to open the settings.



You can set the **altitude loss** for **bike 1** or **bike 2**.
Make this selection by pressing the **BIKE** or **ALTI button**.

Press the **SET button** to confirm the selection.



The setting opens.

The **first digit on the left flashes**. Press the **BIKE button** to **increase** the value. Press the **ALTI button** to **decrease** the value of this digit.

Press the **SET button** to confirm the value.



Settings – total values – altitude loss

The **second digit flashes**. Press the **BIKE button** to **increase** the value. Press the **ALTI button** to **decrease** the value of this digit.

Press the **SET button** to confirm the value.

Once all the digits have been set, confirm the setting by pressing the **SET button**.



The response **“Set OK”** appears on the display.

If you want to configure further settings, press the **BIKE** or **ALTI button** to access these.

If you do not want to configure any further settings, **press and hold the SET or BIKE button**. The settings menu closes.

The VDO M4 WL returns to function mode.



Setting the navigator

The navigator is a second, completely independent trip distance counter.

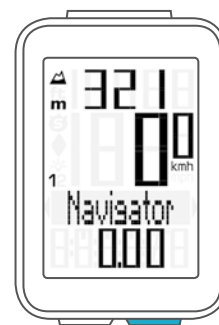
The navigator can:

- be reset to zero any number of times during a trip
- be set to a distance value
- count forwards or backwards from the set distance value.

How to set the navigator:

Press the **BIKE button** to display the **navigator function**.

Navigator setting range: -99.99 to +999.99 km or miles.



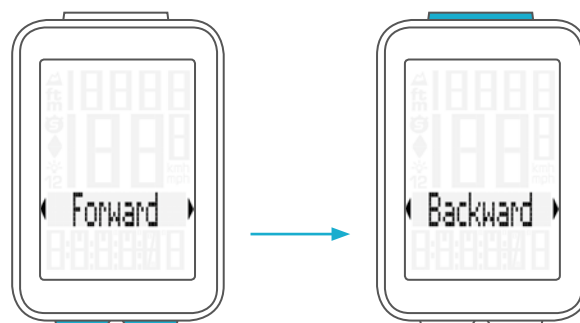
Once the navigator function is on the display, press and hold the **SET button** until the settings menu opens.



First select whether the navigator should count **forwards** or **backwards** from the set value.

Make this selection by pressing the **BIKE** or **ALTI button**.

Press the **SET button** to confirm your selection.



The screen for setting the navigator's distance value is opened. The **first digit on the left flashes**.

Press the **BIKE** or **ALTI button** to change this digit.

Press the **SET button** to confirm the entry.

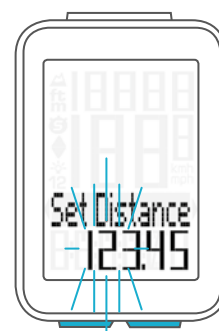


Setting the navigator

The **second digit on the left flashes**.

Press the **BIKE** or **ALTI** button to change this digit.

Press the **SET** button to confirm the entry.



Once all the digits have been set, confirm the entry by pressing the **SET** button.

The response **"Set OK"** appears on the display.

The VDO M4 WL returns to function mode.

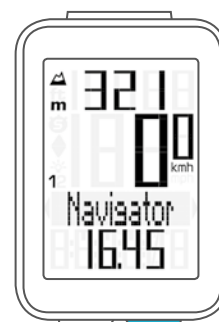


Resetting the navigator to zero

The navigator can be reset to **zero** any number of times during a trip.

How to reset the navigator:

Press the **BIKE** button to display the **navigator function**.



Once the navigator function appears on the display, press and hold the BIKE button.

Navigator RESET appears on the display.

If you **continue to hold down the BIKE button**, the **navigator** is **reset to zero**.



Trip section counter

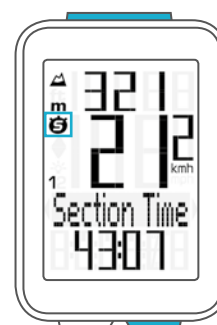
The VDO M4 WL has a time and distance counter that works similarly to a stopwatch.

When the trip section counter is running, the time and the distance covered in this time are recorded.

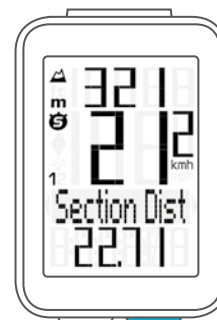
Starting the trip section counter

Simultaneously press the **BIKE** and **SET** buttons.

The **section time** immediately appears on the display and the **icon** for the **trip section counter** is visible.




Press the **BIKE** button to scroll to the trip section distance.



Stopping the trip section counter

To **stop** the **trip section counter**, **simultaneously** press the **BIKE** and **SET** buttons.

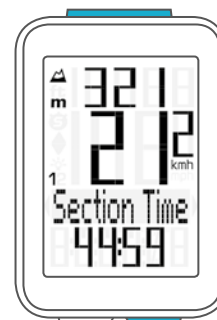
ATTENTION: if you take a break (speed = zero), the trip section counter will automatically stop.

When you set off again (the trip section counter is still active, as shown by the icon “” on the display), the trip section counter will automatically run again.

Restarting the trip section counter

If you have manually stopped the trip section counter and now want to restart it, **simultaneously** press the **BIKE** and **SET** buttons again.

The trip section counter continues from the last value.



Resetting the trip section counter to zero

To reset the counter **either** the **section time** or the **section distance** must be shown on the display.

Press and hold the BIKE button.

The text **Trip Section RESET** appears on the display.

If you **continue to hold down the BIKE button**, the **trip section data** is now reset to **zero**.

The following data is reset to zero:

- Section distance
- Section ride time



Resetting trip data after the trip

After each trip, you can reset the data for this trip to zero. The VDO M4 WL is then ready for the next trip.

ATTENTION: your total distance (total number of kilometres/ miles ridden), total ride time and total altitude gain/loss for the year are not reset to zero.

How to reset the trip data after a trip:

Press and hold the BIKE button for a few seconds.

The text **Tour Data RESET** appears on the display.

If you **continue to hold down the BIKE button**, the **trip data** is now reset to **zero**.

The following data is reset to zero:

- Distance
- Ride time
- Average speed
- Maximum speed
- Altitude gain
- Maximum altitude on the trip
- Average gradient uphill
- Maximum gradient uphill
- Altitude loss
- Average gradient downhill
- Maximum gradient downhill



Recalibrating the altitude before starting

Why is it necessary to recalibrate the M4 WL?

The M4 WL measures the current air pressure and converts it into an altitude measurement. The air pressure changes daily depending on the weather. This leads to a constantly changing current altitude measurement

HOWEVER: your home start altitude has not changed. During recalibration, the currently measured air pressure is recalculated on the basis of a reference value – the preset start altitude for your home.

Following recalibration, the M4 WL again correctly displays the start altitude as the current altitude.

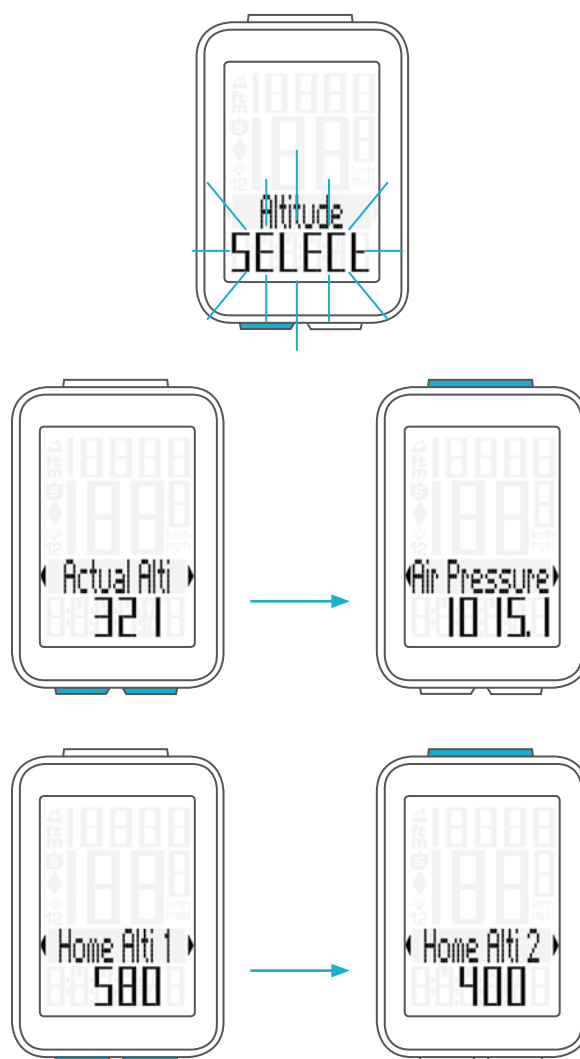
To calibrate the cycle computer, **press and hold the ALTI button** until the menu opens.

“Altitude SELECT” flashes on the display.

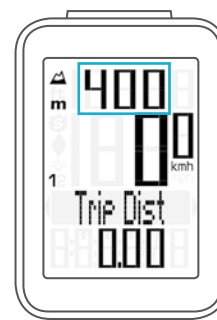
You can now choose whether you want to:

- set the current altitude to the correct value
- set the current sea level pressure to the correct value
- use the start altitude 1 as the reference value for the recalibration
- use the start altitude 2 as the reference value for the recalibration

Press the **BIKE** or **ALTI button** to scroll to **Home Alti 1** or **Home Alti 2** depending on where you are setting off from. Press the **SET button** to confirm the desired start altitude.



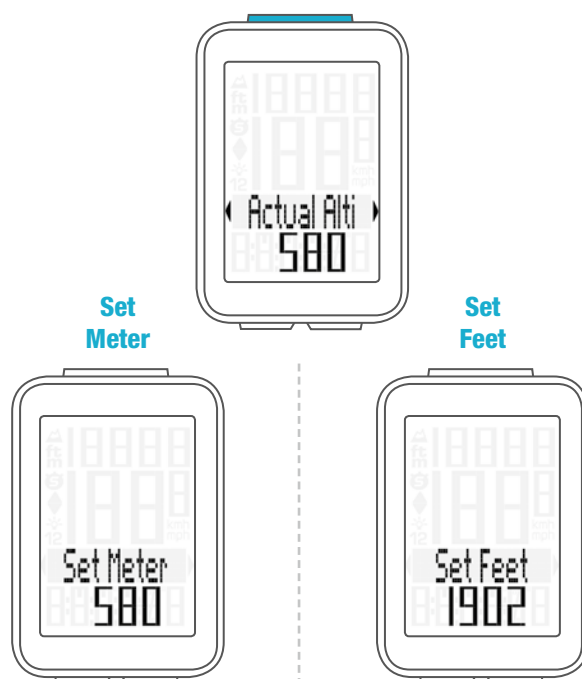
The M4 WL now stores the preset values and displays the start altitude as the current altitude at your present location.



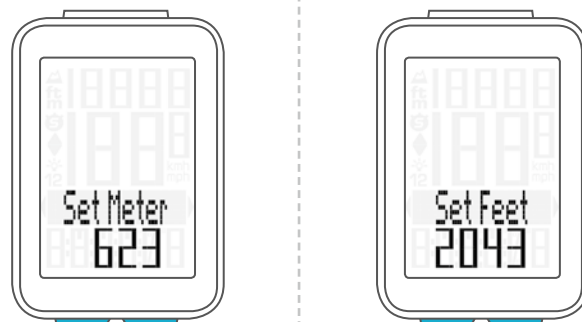
Recalibrating the altitude before starting

In addition to choosing between the two start altitudes, you can also enter a value under “current altitude”. Do this if you are not setting off from either start altitude 1 or start altitude 2.

Press the **SET** button to select “Actual Alti”. The setting opens.



Press the **BIKE** button to increase the value.
Press the **ALTI** button to decrease the value.



Once this value has been set, confirm the setting by pressing the **SET** button.

The confirmation message “Set OK” appears on the display.



The newly set value for the current altitude is now displayed.



Recalibrating the altitude before starting

Making an **entry based on the air pressure** is practical if you are at a location where you do not know the precise altitude.

On the M4 WL, the sea level pressure is recalculated to the current altitude.

Details of the sea level pressure for your current location can be found on several weather websites.

Press the **SET button** to select the setting for the **Air Pressure**.

The setting opens.

The current sea level pressure is displayed.



Press the **BIKE button to increase** the value.

Press the **ALTI button to decrease** the value.



Once this value has been set, confirm the setting by pressing the **SET button**.

The confirmation message "**Set OK**" appears on the display.



The new altitude is now displayed.



Switching the backlight mode on or off

The M4 WL has a backlit display.
To use the backlight, the backlight mode must be activated.

How to activate the backlight mode:

Simultaneously press the **ALTI** and **SET** buttons.



The backlight mode is now activated.
This is indicated by the **light icon** on the display.



When the backlight mode is activated, **each time a button is pressed**, the display **backlight illuminates for a few seconds**. Pressing the same button a second time displays the desired function.

ATTENTION: to conserve the battery, the backlight mode is deactivated if the M4 WL goes into sleep mode during a rest period.

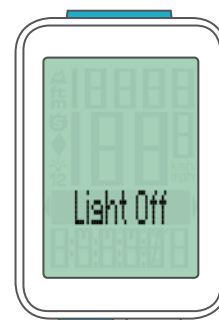
This ensures that you do not unnecessarily drain the battery by having the backlight mode activated during the day, for example.



You can also switch the backlight mode off again manually.

To do so, simultaneously press the **ALTI** and **SET** buttons.

The light icon disappears from the display.

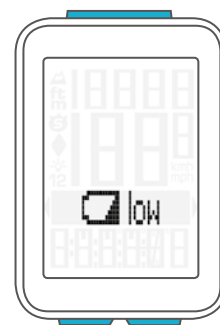


Battery status indicator

The VDO M4 WL has a **low battery warning**. If the remaining battery capacity falls below a certain level, a warning appears on the display.

Press any button to clear the warning.

Following a low battery warning, you still have **approx. 2 weeks** to replace the battery.



Replacing the battery in the computer

To ensure your cycle computer is fully functional, we recommend **replacing the battery annually**.

ATTENTION: your settings as well as your total distance, total ride time and altitude gain/loss for the year remain stored when you replace the battery. **NO** data is lost.

You need a 3 V 2032 battery.

We recommend using a branded battery from Sony, Panasonic, Varta or Duracell.

How to replace the battery:

STEP 1

Use a coin to remove the battery compartment cover.

STEP 2

Remove the dead battery.

ATTENTION: Wait for **10 seconds** before inserting the new battery. The electronics need this time to recognise that the battery is being changed.

STEP 3

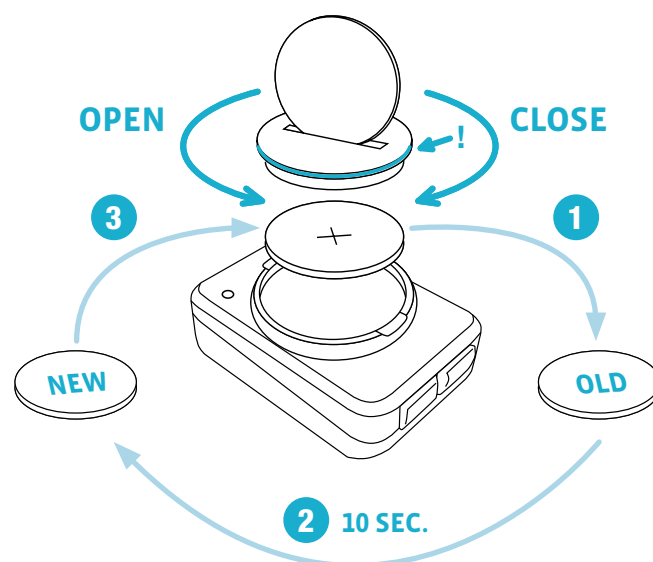
Insert the battery into the computer housing with the +pole up.

Ensure that the battery is not tilted.

Ensure that the rubber seal lies smoothly on the lid of the battery compartment.

STEP 4

Insert the battery compartment cover into the opening and use a coin to turn it to the right as far as it will go.



Replacing the battery in the speed transmitter

The battery in the speed transmitter **should be replaced annually** to guarantee seamless wireless transmission.

You need a 3 V 2032 battery.
We recommend using a branded battery from Sony, Panasonic, Varta or Duracell.

How to replace the battery:

STEP 1

Use a coin to remove the battery compartment cover.

STEP 2

Remove the dead battery.

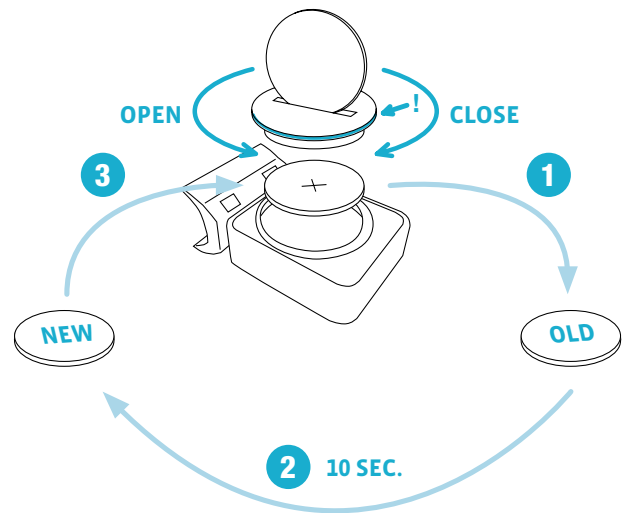
ATTENTION: Wait for **10 seconds** before inserting the new battery. The electronics need this time to recognise that the battery is being changed.

STEP 3

Insert the battery into the transmitter housing with the +pole up. Ensure that the battery is not tilted. Ensure that the rubber seal lies smoothly on the lid of the battery compartment.

STEP 4

Insert the battery compartment cover into the opening and use a coin to turn it to right as far as it will go.



Terms of guarantee

VDO Cycle Parts offers a **two-year** guarantee on your VDO computer, **starting from the date of purchase**.

This guarantee covers material and processing defects on the computer itself, the sensor/transmitter and the handlebar bracket.

Cables, batteries and mounting materials are not covered by the guarantee.

The guarantee is only valid if the affected components have not been opened (exception: computer's battery compartment), no force has been used and there is no sign of wilful damage.

Please store the purchase receipt in a safe place as it must be submitted in the event of a complaint.

If your complaint is legitimate, you will receive a comparable replacement device. You are not entitled to a replacement of the identical model if the model in question is no longer in production due to a model change.

Please contact the dealer from whom you purchased the device for all complaints and guarantee claims. Alternatively, send your complaint directly to:

Cycle Parts GmbH

Le Quartier Hornbach 13
67433 Neustadt/Weinstrasse

If you have any technical questions, please do not hesitate to call our hotline on:

+49 (0) 63 21- 95 82 7 - 10

+49 (0) 63 21- 95 82 7 - 18

**Our telephone hotline is available to assist you
10:00-12:00 and 15:00-17:00,
Monday to Friday**

Additional technical information is available at:
www.vdocyclecomputing.com

We reserve the right to make technical changes in the course of further development.

Troubleshooting

Error	Possible cause	Correction
Half segments on the display (e.g. after a battery change)	Computer software not running correctly after battery change	Remove and re-insert the battery
No speed displayed	Distance from sensor to magnet too great	Correct the sensor and magnet positions
No speed displayed	Computer not properly clicked into the handlebar bracket	Insert the computer into the handlebar bracket and rotate it as far as possible ("click")
No speed displayed	Wheel circumference is set incorrectly or to zero	Set the wheel circumference
No speed displayed	Battery in the transmitter is dead	Replace the battery in the transmitter
Display becomes weak	Battery dead	Check the battery, replace if nec.

Technical specifications

Computer:

Approx. 49 H x 33 B x 12 D mm

Computer weight:

Approx. 30 g

Handlebar bracket weight:

Approx. 10 g

Speed transmitter weight:

Approx. 20 g

Computer battery:

3V, type 2032

Computer battery service life:

Approx. 1 year (approx. 400 ride hours,
approx. 8,000 km (5,000 mi))

Speed transmitter battery:

3V, type 2032

Speed transmitter battery life:

Approx. 1.5 years (approx. 15,000 km (9,000 mi))

Wireless transmission ranges:

Speed transmitter: 75 cm

Temperature indicator range on the display:

-20 to +70 °C or -4 to +158 °F

Speed range for wheel size 2,155 mm:

Min 2.0 km/h,

Max 199 km/h

Ride time measurement range:

Up to 99:59:59 HH:MM:SS.

Trip distance odometer measurement range:

Up to value 9,999.99 km or mi

NAVIGATOR measurement range:

From -99.99 to +999.99 km or mi

Total km measurement range:

Up to value 99,999 km or mi

Total ride time measurement range:

9999:59 HHHH:MM

Wheel circumference setting range:


From 100 mm to 3,999 mm (3.9 to 157.4 inches)

Altitude measurement range:

-999 m to +4,999 m/-999 ft to 16,999 ft

Correct disposal of this product (electrical waste)



(To be used in EU countries and other European countries with a separate collection system). The  labelling on the product and the relevant literature indicates that it must not be disposed of with normal household waste at the end of its service life. Please dispose of this device separately to other waste so as not to harm the environment or human health through uncontrolled waste disposal. Recycle the device to promote the sustainable reuse of material resources. Private users should contact the retailer from whom they purchased the product or the responsible

authorities to find out how they can recycle the device in an environment-friendly manner. Commercial users should contact their suppliers and consult the conditions of the sales agreement. This product must not be disposed of with other commercial waste.

EU declaration of conformity

We, CYCLE PARTS GmbH, Le Quartier Hornbach 13, D-67433 Neustadt/Weinstraße, declare that when used as intended, the VDO cycle computer with wireless transmission VDO M4 WL and the transmitter D3-SPD comply with the essential requirements established in Article 3 of the R&TTE Directive 1999/5/EC.

The declaration of conformity can be viewed at: www.vdocyclecomputing.com.



Neustadt, October 2013

FCC-Addendum

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC-Addendum

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and

- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class digital apparatus complies with Canadian ICES-003.

Cycle Parts GmbH

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