



*Trip Totem Odometer
and
Trip Totem CR Odometer*

INSTRUCTIONS HANDBOOK

Equipment produced by:

TOTEM Electronical Equipments

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For fast reference consult
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This handbook was written for the odometer models Trip Totem and Trip Totem CR. Some functions and characteristics are specified for each model and that is indicated in the handbook.

Revisions:

- [Okt/2002] First Edition
- [May/2003] Trip with average speed
- [Nov/2003] Trip with blinking edition (version 2.0 or superior)
- [Jul/2004] Inclusion of REF on calibration

Presentation / Equipment characteristics

Congratulations, you just bought the most complete and versatile digital odometer. This equipment incorporates the following functions:

- Digital odometer with double precision 1m / 10m (can be configured)
- Digital Speedometer
- Average Speed
- Sound alarm for speeding excess, helping to avoid fines
- Partial and accumulated odometer
- Registers the maximum reached speed
- Voltmeter (measures the voltage of the battery)

The equipment is presented in two models:

- Trip Totem: Directed for day to day use, on tours, expeditions. Doesn't have remote control neither screens for the pilot.
- Trip Totem CR: directed for competitions. Has remote control and optional screen for the pilot (Trip Pilot).

Optional Accessories (for competition):

- Trip Pilot: shows odometer and speedometer or average speed to the pilot (optional accessory)
- Control: remote control with wire (available version Trip Totem CR)

Main usage types:

- Raid / Regularity Rallye / Speed Rallye / Baja (competitions)
- Tour / Tourism / Expedition
- Technical measurement

Functions of the digital odometer:

- Can be calibrated in km or miles
- Reset
- Increase / Decrease (fast touch correction)
- Calibrate (calibrate for your vehicle type, tyre, etc)
- Manual calibration alteration (W) or by automatic calibration (calibrate)
- Odometer countdown

- Block odometer
- Freeze odometer for reading and/or correction

Other Characteristics:

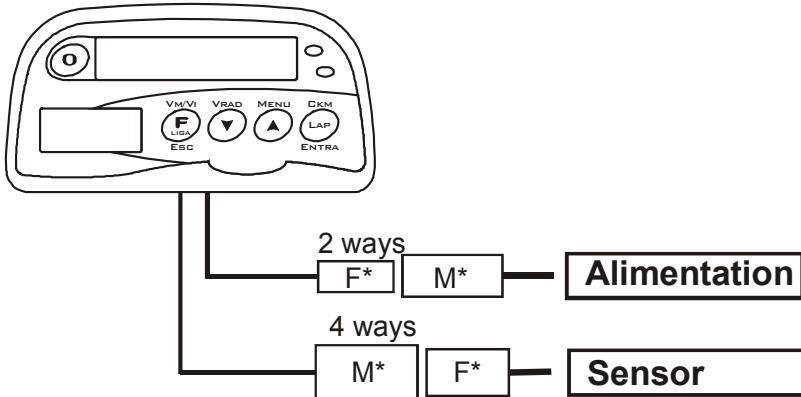
- Brightness adjustment (strong / weak) adapting for day- / nighttime use
- Turn On / Off by keyboard
- Alarm for speeding excess helping to avoid fines due to speed excess
- Auto turn off – after 30 minutes of non-usage the equipment turns off. It turns on automatically by just moving the vehicle.

There is no doubt that now you have an equipment.

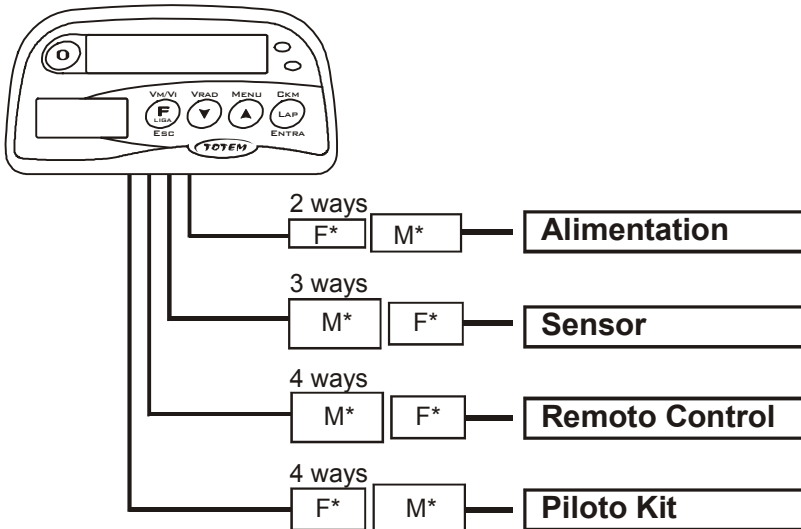
The model Trip Totem has 2 wires and the model Trip Totem CR/KCR has 4 wires.

Installation

Model Trip TOTEM



Model Trip TOTEM CR/KCR



*M = male / F = female

Alimentation: Connecting the alimentation wire (black/red) directly to the vehicle battery: the red wire on the positive pole (+) and the black on the negative pole (-).

Sensor:..... The rotation sensor is connected to the speed cable. Look for a speedometer/taximeter assistance if you wish that the original speedometer keeps working or if the connection is of a plastic setting (needs adaptation of sensor). If the vehicle has an original sensor, use the cable for electronic sensor that accompanies the specific installation handbook for each vehicle.

Turn On / Turn Off Equipment

Auto-Turn Off

After 30 minutes of non-usage the equipment turns off automatically


Auto Turn On

If the equipment was turned off by auto-turn off it will turn on by just moving the vehicle.

Turn On equipment

Press key [F / Turn On]

Turn Off equipment

Select option  of the function menu or maintain the key [F] pressed. Consult the chapter "Function Menu".

Observation

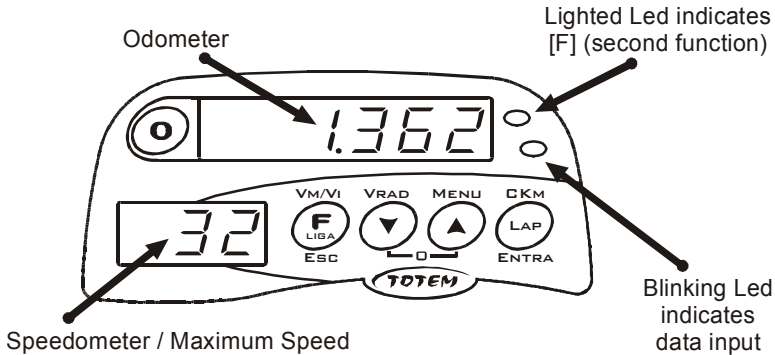
- When the equipment is turned on (except by auto turn on) the accumulated odometer is shown for some seconds. The accumulated odometer can be used for oil change control, programmed revision. The accumulated is shown in whole kilometers. *(desenho)* In this example 1329 accumulated km were already traveled. To know more about it see "Accumulated Odometer".



- Even when turned off the odometer continues registering the traveled distance.

Keyboard / Screen

Screen and indicating lights

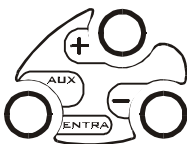


Top screen:digital odometer / data input
 Lower screen:instantaneous or average speed / function menu
 Top light:lighted indicates F (second function)
 Lower light:blinking indicates data input

Keyboard

The keys have 3 distinct functions:

- Inside the key: directly executed, with a simple touch
- Above the key: to execute it press [F] before
- Below the key: used during typing / data input


Remote Control (model Trip Totem CR or KCR)

- BOT AUX: auxiliary button (AUX / entra)
- BOT INC: increase button (+)
- BOT DEC: decrease button (-)







Data Input (typing numbers)

Some functions require typing of a number. In this chapter we will show how the typing (alteration) of a number is done.



Lower indication light blinking indicates processing typing. In this moment the functions below each key are active.

During the typing the keys have the following functions:

	[0 / →]	Makes blinking digit change to next one Keeping the key [0 / ...] pressed, resets the value
	[Esc]	Cancels the function as it was not executed
	[▼]	Decreases the number
	[▲]	Increases the number
	[Entra]	Confirms typing concluding function
	Remote control (optional)	During typing the remote control executes the functions [+], [-] and [enter], that means, you can type data by keyboard or remote control.

Function Menu

The functions not printed on the keyboard are executed by the function menu.

[F] [Menu].....enters the menu




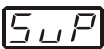
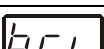



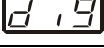


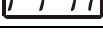
[▼] ou [▲].....shows function before or after menu

[Entra]confirms selection and executes selected function

[Esc].....leaves the menu

Observation

- The button [+] and [-] of the remote control also select the function
- The button [AUXiliary] of the remote control confirms and executes the function.
- Keeping the button [AUXiliary] pressed also enters the menu
- The top indicating light blinks while the menu is active.

Screen	Function
	Resets average speed without resetting the odometer (starts the average speed counting from this point)
	Changes automatic calibration (calibrates the equipment of the vehicle)
	Changes the calibration (W / CAL) manually
	Shows the SUPerior speed, that means, the maximum speed reached by the vehicle. This function also resets the maximum speed.
	Adjusts the brightness of the screen (strong / weak).
	Shows accumulated odometer and permits resetting.
	Voltmeter. Shows voltage of BATtery.
	Configures the PREcision of the odometer in 1m (3 decimal positions) or 10m (2 decimal positions).
	Indicated if the distance typing is done in 1m (3 decimal positions) or 10m (2 decimal positions).
	Chooses the function of the auxiliary button that can execute the function [Lap] or [reset].
	Turns off the equipment
	Blocks the odometer (stops counting)

Brightness Adjustment [menu / brightness]

The brightness adjustment is in the option menu:

[F] [Menu] 4 x [▲]  [Entra]

Now use the arrows to choose between [strong] and [weak] concluding with [enter].

Odometer – Reset



To reset the odometer press (simple touch).

- The **average speed is reset** (initiating) when the odometer is reset.
- The auxiliary button of the remote control also resets the odometer. For that, configure the auxiliary button as [reset]. See chapter <configure odometer>.

Odometer – Increase / Decrease



..... decreases the value of the odometer (subtracts 1m/10m)



..... increases the value of the odometer (adds 1m/10m)

- Keeping the key pressed the keyboard turns into auto-repetitive
- The button (+) and (-) of the remote control also correct the odometer.
- If the odometer is marking 10 in 10 meters so each touch changes 10m. If it is marking 1 in 1 meter changes 1 meter.

Odometer – Calibrate

Calibrate de odometer means the calibration of the equipment so that the indication of the distance is correct independent of the vehicle type, size and calibration of the tyres, etc.

In a competition calibrating makes the odometer mark exactly the same as the standard used to measure the distance of the plan or board book.

The calibration of the equipment is done through a constant of calibration that receives the name W or CAL. The W / CAL are the numbers that indicate how many turns the speedometer realizes for each traveled 10km.

Calibrating the odometer calibrates automatically the speedometer.

You can calibrate the odometer in two different ways:

- Automatic calibration, typing the distance
- Changing the W / CAL manually

Automatic calibration by distance [menu / calibrate]

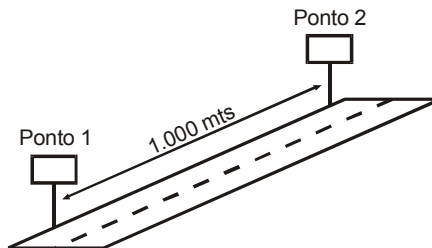
When you execute the [menu / calibrate] function the equipment calculates and presents the new W (CAL).

The procedure for calibration is the following:






- Reset the odometer
- Travel a known distance







Execute [menu/calibrate] and type the value of the traveled distance

Exemplo:



Let's calibrate using two plates of distance of a road, that have 1km between each other (the used distance to calibrate can be any).



Key	Comment	Screen
	Reset odometer at [spot 1]. Move to [spot 2].	
[F] [Menu] 1 x [▲]	Execute Menu. [Calibrate] is the second option of the menu.	
 ENTRA	Press the key [enter] exactly at [spot 2]. The odometer marked as an example 1,340km, as it is not calibrated. REF indicates the reference value.	


	Use the keys [↓] and [↑] to type the value 1,000km that is the exact distance between [spot 1] and [spot 2].	
	Press [enter]. At this moment the new W (CAL) is calculated and presented.	
	Press [enter] again to confirm the new W or [esc] to cancel the calibration.	

- The calibration of the odometer can be realized with the moving vehicle, if the key [enter] was pressed exactly at the calibration spot. The equipment compensates the traveled distance during the data typing.
- Try to calibrate with a distance bigger than 1km. That warrants more precise calibrations.
- During the movement for calibration don't realize any type of correction of the odometer, as in this event the spot is marked and the calibration track is re-initiated.
- To change a digit a time press [0 / →]. Use the arrows to change the digit that is blinking and use [0 / →] to "jump" to the next digit.
- To calibrate not starting from zero execute a correction of the odometer (Lap, =, -) at the first spot.
- You calibrate in km or miles.

Calibration altering W / Cal manually [menu / CAL]

The calibration can be adjusted changing the value of the constant of the calibration of the odometer (W / CAL) manually. This function is in the option menu and the sequence to execute it is

Key	Comment	Screen
[F] [Menu] 3 x [▲]	Activate the function menu. Observe that the top indicating light blinks and the odometer continues working	
[Entra]	Confirm the selection executing the function. Now the lower indicating light blinks and the actual W / CAL	

	appears on the odometer screen.	
[▼] e [▲] [Entra].	Type the new W / CAL and conclude with [enter]	

- To change a digit a time press [0 / →]. Use the arrows to change the digit that is blinking and use [0 / →] to “jump” to the next digit.
- Decreasing the W / CAL makes the odometer marking more
- Increasing the W / CAL makes the odometer marking less

Odometer – Freezing and correcting with precision [Lap]

The function [Lap] can be used to correct the value of the odometer with the moving vehicle. For that




ENTRA < Type the correct distance in kilometer > ENTRA


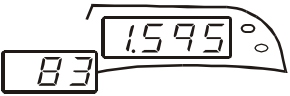


- Press [LAP] at the exact spot of correction of the odometer
- The auxiliary button of the remote control can be configured as [Lap]
- The equipment compensates the distance traveled during the typing of the distance.

Example of odometer correction

After making a mistake on the track you found yourself at the reference of the gate for which the correct value of the odometer is 1445km (is written on the plan). But your odometer is marking 1458 (due to the mistake). To correct:

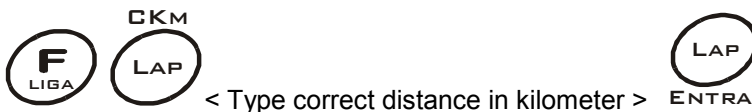
Key	Comment	Screen
[Lap] ou [Bot Aux]	Press [Lap] exactly at the spot of correction that means, in front of the gate. The odometer is frozen.	

[▼] e [▲]	Change the frozen value to the correct distance that is 1,445km. Also use the button [+] and [-] of the remote control.	
[Entra] ou [Bot Aux]	Imagine that you traveled 150 meters during the correction. The equipment compensates this space and marks 1,445km = 0,150km = 1,595km	

- To change a digit a time press [0 / ➔]. Use the arrows to change the digit that is blinking and use [0 / ➔] to “jump” to the next digit.
- Keeping the key [0 / ➔] pressed resets the value that is being changed.
- Pressing the buttons INC and DEC of the remote control at the same time resets the value that is being alerted.

Odometer – Pre-typed correction [CKM]

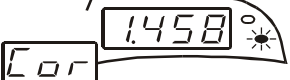
The function [Ckm] permits that the value of the odometer can be typed prior to the spot of correction and you just have to press [enter] when passing the spot.





- Press [enter] at the exact spot of correction of the odometer

Example of correction of odometer with [CKM]

You make a mistake on the track and know that you are going to pass the gate in 1,445km (is written on the plan). But your odometer is marking 1,458km (due to the mistake). To correct:

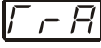
Key	Comment	Screen
[F] [Ckm]	Press [F] [Ckm] at any spot before the gate	

[▼] e [▲]	Change the frozen value to the correct distance that is 1,445km. Also use the button [+] and [-] of the remote control.	
[Entra] ou [Bot Aux]	When you press [enter] the odometer marks 1,445km from that moment on.	

- To change a digit a time press [0 / ➔]. Use the arrows to change the digit that is blinking and use [0 / ➔] to “jump” to the next digit.
- Keeping the key [0 / ➔] pressed resets the value that is being changed.
- Pressing the buttons INC and DEC of the remote control at the same time resets the value that is being alerted.

Odometer – Block [menu / blocking]

Blocking the odometer means simulating a stopped vehicle that means, the odometer maintains itself frozen (blocked) even if the vehicle is moving.

- Blocking odometer: [F][Menu][▼][- Getting back to normal: [esc] or [enter] or [Bot aux] of the remote control
- The lower indicating light blinks while the function is activated

Odometer – countdown [Reg]





This function makes the odometer marking regressively (counts backwards).

- Counting regressively: [F] [Reg]
- Back to normal: [Esc] or [enter] or [Bot aux] of the remote control
- The lower indicating light blinks while the function is activated

Odometer – Accumulated / Total

The equipment has an accumulated odometer, that means, registers the traveled distance independently of the partial odometer that is normally shown on the screen. This accumulated odometer can be used for oil change control, programmed revision or as a totalizer of the traveled distance while an expedition. This function permits:

- Consulting the accumulated odometer
- Resetting the accumulated odometer
- Changing the accumulated value

Key	Comment	Screen
[F] [Menu] 5 x [▲]	Activate the function menu and select until [Acu], of accumulated appears	
[Entra]	Confirm the function that then presents the accumulated odometer (in this example 1329km)	
[0 / ➡] [Entra]	Maintain the key [0] pressed until resetting the accumulated and confirm with [enter]	
[Esc]	Press [esc] if you don't want to reset the accumulated, that means, realizing a simple consultation	

Observation

- When the equipment is turned on (except auto-turn on) the accumulated odometer is shown for some seconds
- Use the arrows [▲] and [▲] to change the accumulated
- To change a digit a time press [0 / ➡]. Use the arrows to change the digit that is blinking and use [0 / ➡] to “jump” to the next digit.
- Keeping the key [0 / ➡] pressed resets the value that is being changed.

Average Speed

The average speed is shown on the same screen of instantaneous speed.


“Resetting” the average speed means initializing its counting, that means, the average speed is calculated from the last “reset” of the average speed on

Alternating between average speed and instantaneous speed

[F][Vm/Vi] alternates between average speed and instantaneous speed

- When the decimal point of speed blinks it indicates the average speed

“Resetting” the average speed



You can “reset” the average speed without resetting the odometer executing the function  of the menu. When the odometer is reset the average speed is also reset



Hint

- The average speed can be reset without resetting the odometer. That means that the Trip Totem is an equipment indicated for competitions and can be used on tracks where the average changes without resetting the odometer.
- The average speed is calculated using the odometer shown on the screen. Therefore the shown average speed can be used as a basis of navigation on regularity competitions.

Maximum reached Speed (See and/or Reset)

This function permits consulting and erasing the maximum reached speed by the vehicle, that is automatically stored. The function is executed through the menu

Key	Comment	Screen
[F] [Menu] 3 x [▲]	Activate the function menu and select until [SUP], superior, appears	
[Entra]	Confirm the maximum speed presented	

[0 / →] [Entra]	[0 / ...] erases the maximum speed and [enter] confirms it	
[Esc]	Press [esc] if you don't want to erase the maximum speed, that means, realize a simple consultation and keeping it stored.	

Radar Speed [VRad]

If you overpass the speed called “radar speed” a sound and visual alarm starts. With that you avoid fines for speed excess.

The function [VRad] permits:

- Consulting the “Radar Speed” actually stored
- Changing the “Radar Speed”
- Storing the instantaneous speed as “Radar Speed”, that means, indicating that the actual instantaneous speed is the limit from now on.



Starts function showing the “Radar Speed”

The following keys change the function:

[▼] ou [▲].....change the “Radar Speed” with 10km/h steps

[Entra]concludes accepting the new “Radar Speed”

[Esc].....concludes function. In this event we would have realized a consultation.

[0 / →].....copy instantaneous speed to “Radar Speed”





The function [VRad] requires the conclusion with [enter]. But this function has auto-enter. After 2 seconds without pressing any key the function is automatically concluded

To cancel the function that starts the alarm on speeding excess, change the radar speed to the value zero. In this form you disable this equipment application.







Examples:

Assume that the “Radar Speed” stored is 80km/h and you are moving with 103km/h





Consult Radar speed.

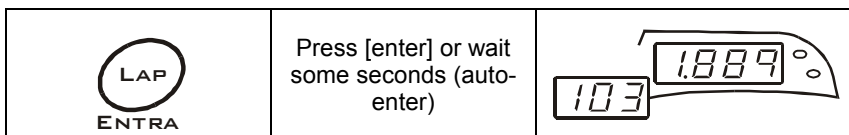
Key	Comment	Screen
	Radar speed is presented on the top screen.	
	Press [esc] to leave or wait some seconds (auto-enter)	

Change radar speed from 80km/h to 100km/h

Key	Comment	Screen
	Radar speed is shown on top screen	
	Use the arrows to change. Observe that the step is 10 to 10	
	Press [enter] or wait some seconds (auto-enter)	

Copying instantaneous speed to radar speed

Key	Comment	Screen
	Radar speed is shown on top screen	
	The key [seta direita / right arrow] copies the instantaneous speed to the radar speed	



Voltmeter [menu / Bat]

To see the voltage of the vehicle battery:

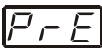








[F] [Menu] 6 x [▼]  [Entra]

- If the voltage is over 16V with the vehicle turned on that indicates possible defect on the tension regulator of the alternator.

Configure odometer (set-up)

The digital odometer can be configured adapting it to your necessities and preferences. The configuration options are in the option menu

- [F] [Menu]to initiate menu
- [▼] ou [▲]to change option
- [Entra]para aceitar opção selecionada

Screen	Configure	Description	Options	Options
 PRE cisão	Marking precision of the odometer	The odometer can mark 1 to 1 meter or 10 to 10 meters. Observe that the decimal point changes the position.		1 m
				10 m
 DIG itação	Typing precision of the odometer	Some functions as [Lap] or [calibrate] require typing of a distance. You choose the precision of this typing.		1 m
				10 m
 Controle Remoto	Auxiliary button of the remote control (optional)	The auxiliary button can execute the function [lap] or [reset]		Lap
				Zerar

- Hint: on competitions where the plan has references 1 to 1 m we suggest typing precision of 1m and marking precision of 10 meters. So the odometer marking is more readable (as it would 'turn' to fast meter to meter) but when you execute a function, the typing is done with the precision of the plan that is meter.

Function Summary

Odometer	
Reset	[0]
Countdown	[F] [0 / Reg]
Increase	[▲]
Decrease	[▼]
Calibrate	[F] [Menu] [▲] [Entra] <km correto> [Entra] [Entra]
Correct precision	[Lap] <km correto> [Entra]
Block	[F] [Menu] [▼] [Entra] ([Esc] volta ao normal)
Calibration (CAL) / W	
Change manually	[F] [Menu] 2 x [▲] [Entra] <CAL / W> [Entra]
Calibrate by km	[F] [Menu] [▲] [Entra] <km correto> [Entra] [Entra]
Radar Speed (speeding alarm exceeded limit)	
Disable alarm	[F] [VRad] pressionada ([▼] até zerar) [Entra]
Change VRad	[F] [VRad] pressionada ([▲] ou [▼]) [Entra]
Maximum speed reached	
Consult Vmax	[F] [Menu] 3 x [▲] [Entra] <Vmax> [Esc]
Reset / erase Vmax	[F] [Menu] 3 x [▲] [Entra] [0 / ➔] [Entra]
Accumulated Odometer	
Consult accumulated	[F] [Menu] 5 x [▲] [Entra] <Acumulado> [Esc]
Reset accumulated	[F] [Menu] 5 x [▲] [Entra] <Acumulado> [0] [Entra]
Average speed	
Reset average speed	[F] [Menu] [Entra] ou Zere o odômetro

Warranty Term

The term of warranty is 6 months counted from the sales date on. The maintenance is free of charge in the event of problems explicit resultant from production, during the warranty term. It is required to send the fiscal bill together with the equipment.

The warranty term for installation cables, buttons, remote control and sensor is of 3 months.

We reserve the right of not render maintenance service, free of charge or not, in following events:

- Defect caused by poor installation
- Internal sealing violation, that is broken when opening the odometer

Transport costs of the equipment are **risk and order of the owner** even during the warranty term.

All maintenance services are rendered at the authorized technical assistance

Alexandre Chiarello Bortot M.E.

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CEP 08562-300

email: contatos@totemonline.com.br

home page: www.totemonline.com.br

Customer service 55 11 4638-2049

<p>We are not responsible for direct or indirect damages or prejudices caused by poor functioning of the equipment, being on warranty or not. The warranty covers exclusively service and pieces of the equipment produced by us.</p>

This equipment can suffer modifications and evolutions without prior notice.

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