

Digital Speedometer MDTV *Made in Germany*
Mini speedometer with LED display up to 999 km/h, tolerance less than 1 km/h

The mini speedometer from RACETRONICS impresses with its appearance as well as with its particularly small design. State-of-the-art microelectronics guarantee reliable operation and guarantee maximum accuracy and reliability. The completely waterproof encapsulated electronics are extensively protected against voltage peaks, overvoltage and short circuit.

The display can be dimmed for night driving at the push of a button and counts up or down without delay, the functions trip odometer warning, trip odometer counter and total odometer counter can be conveniently set or called up via any button.

The electronic speedometer sensor works wear-free according to the Hall effect principle, the integrated LED facilitates the positioning of magnet/sensor considerably.

Functionalities:

Speed display in Km/h to 999 Km/h (measuring error below 1Km/h) / (from 200 Km/h with increasing tolerance up to max. 8 Km/h at 999Km/h)

Adjustable "trip-kilometre warning": A yellow LED lights up when an adjustable trip-kilometre value is exceeded (e.g. when the tank reserve is reached).

Daily and total kilometres are stored permanently (min. 10 years) even in case of power failure (trip kilometre counter up to 999 km, total kilometre counter up to 99999 km)

The total mileage cannot be manipulated and cannot be programmed.

Adjustable wheel circumference up to 2999 mm

Complete operation via external button (not included)

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Programming the reserve warning:

- 1) Switch on ignition
- 2) While the reserve LED is flashing Press the button and hold it down
- 3) The display counts up in Km (Miles), release the button as soon as the desired Km value has been reached (e.g. 190 Km (Miles)) Value is now stored; the reserve LED lights up as soon as the daily Km (Miles) counter has reached the set value.

Display of daily mileage: Briefly press the button (longer than 1 sec. until the display appears)

Display of total mileage: Press the button until the mileage runs from right to left (release the button while the total mileage runs, otherwise the daily mileage will be set to "0")

Clear the day odometer: (Reset to "0")

With the speedometer switched on, hold down the button until "00" is displayed (first the daily mileage and then the total mileage is displayed; the daily mileage counter is set to "00" as soon as the total mileage is complete).

All values remain permanently stored even if the supply voltage is lost!

Dimming the display:

The brightness of the display can be dimmed down for night driving by briefly pressing the button (< 1 sec.), pressing the button again switches back to maximum brightness.

After switching on the ignition, the maximum brightness is always active.

Scope of supply:

- 1x digital speedo MDTV with wheel sensor and magnet,
- approx. 1 m connection cable (red & black),
- plug,
- flying fuse 350 mA
- Installation & Operating Instructions

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Supply voltage connection:

Connect the plus (red cable) with the supplied fuse holder to the plus switched via ignition and minus / earth (black cable) to any ground. Please ensure that the tachometer and sensor cables are routed as far as possible from the ignition cables and ignition coil!

Only use interference suppressed spark plugs and spark plug connectors! Malfunctions by the ignition system can lead to faulty display and increased total mileage!

Connection of external button: (Not included in delivery)

Button must connect through ground / minus! Connect the push-button connection (grey line) to a corresponding push-button (NO contact).

Speedometer sensor mounting:

The sensor reacts only to the south pole of the magnet!
 The switching point indicator lights up as soon as the magnetic field activates the sensor. A minimum distance of 5mm between sensor and magnet should not be exceeded. The magnet is attached to the wheel e.g. on a brake disc screw with 2-component adhesive.

Wheel circumference programming in mm (1883mm wheel circumference is preset):

- 1) Press and hold the button
- 2) Switch on ignition
- 3) The first digit with "1" or "2" for the thousands is displayed on the left, if "1" is displayed but "2" is to be set, then ignition off and repeat the procedure.
- 4) After displaying the thousands on the left side (1st digit), continue to press the button
- 5) The reserve warning flashes 3x, then the hundreds count up (keep the button pressed)
- 6) Release the button as soon as the desired value (e.g. 883) has been reached; the wheel circumference is now saved.

To show miles divide the wheel circumference in mm by 1,609344 e.g. wheel: 1883 mm -> 1883/ 1,609344 = 1170

So you have to program 1170 for the advertisement in miles!

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Technical Specifications MDTV

Power supply.....6-18 V

Power consumption approx.
 with activated dimming.....40 mA
 at max. brightness160 mA

dimensions MDTV ca.....51 x 24 x 16 mm

Operating temperature- 30° - +75°C

Maximum tightening torque Thread1Nm

The device is 100% waterproof to IP6K9K and protected against reverse polarity.

Warranty

The company RACETRONICS grants for the product

MDTV

a guarantee of 5 years for expressly warranted characteristics as well as for function and manufacturing defects. The warranty period begins on the date of the invoice.

Excluded from the guarantee are damages caused by improper use contrary to the information in the operating instructions as well as natural wear and tear or unauthorized interventions by the customer. This also applies to improper installation.

Aluminium corrosion is not a defect in the "Alu-Natur" model and is excluded from the guarantee. RACETRONICS recommends "ALU-MAGIC" for polishing the aluminium housing!

Further information can be found in the general terms and conditions of the company RACETRONICS at www.racetrronics.de under "AGB".

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Declaration of Conformity



This is to certify that the product

Digital speedo MDTV for motorcycles

complies with the following standards and directives:

EMV-Richtlinie 2004/108/EG

EN 55022: 2006 & A1: 2007

EN 55024: 1998 A1: 2001 & A2: 2003

RREG 97/24/EG /8 1997

Meets the requirements of independent technical units (STE) according to

§ 30 StVZO

RREG 2009/80/EWG

RREG 2000/7/EG (siehe Messprotokoll)

RREG 97/24/EG /3

Berlin, im August 2013

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M. Schellhorn
- Entwicklung & Vertrieb -

Digital Tachometer MDTV



Anleitung MDTV / 3. Auflage
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www.racetrronics.de
Das Anfertigen und die Weitergabe von Kopien, auch auszugsweise, sowie elektronische Vervielfältigung oder Bearbeitung, sowie Veröffentlichung ist ohne vorherige schriftliche Genehmigung von RACETRONICS® / M. Schellhorn untersagt!
RACETRONICS® ist ein eingetragenes und geschütztes Warenzeichen.
Alle im Text genannten Markennamen sind das Eigentum ihrer jeweiligen Besitzer!

Important information

(Please read before commissioning!)

- Warning icons and text: Damaged devices must never be put into operation! Damaged devices must be checked by a specialist! Under no circumstances may holes be drilled in the frame, supporting parts, motor and gear housing! The customer is liable for damage caused to the vehicle and to third parties! RACETRONICS excludes any liability for damages caused by improper installation! Furthermore, the installation must under no circumstances impair the road safety of the motorcycle! It is the responsibility of the customer to ensure safe installation! Have the installation carried out by a qualified specialist workshop if you are not confident of the installation! It is recommended to disconnect the battery (minus pole) before starting the installation work to avoid damage due to short circuits!

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