



motoscope light



motogadget - digital measurement

**Instruments and accessories
for individualists**

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The motoscope light

from motogadget is a multifunctional, digital instrument that either completely replaces or enhances conventional display devices on motorcycles and kit-cars. Added-on parts like bicycle speedometers or additional rev counters are no longer required, and original instrumentation that is too big, heavy, unsightly or faulty can be removed. The motoscope light replaces such instruments with a small and reliable device. The motoscope light shows every measured value with high precision and features a modern design and an individual look. The motoscope light is eminently suited to all custom bikes such as Low Riders, Street Fighters, Café Racers and all other individually styled motorcycles, as well as to Quads and sporting kit-cars. In short, the motoscope light offers multiple functions in a small, precise and attractively styled instrument.

The casing

The billet aluminium casing is CNC-milled and therefore of highest quality. Its surface is anodised either in black or aluminium nature (silver). Recently we also offer the instruments chrom plated. The casing is sealed and protects all electronic parts against weather, water and dust.

LE-display and LC-display

The engine speed (revs/min) is easily ascertainable via a band of 39 ultra-bright LEDs. In order to achieve an optimal readability in darkness, daylight and twilight, the brightness of the LEDs is adapted automatically by means of a photodiode.

This adaption can still be adjusted individually in the set-up menu. By pushing a non-locking-switch (menu push button) the exact engine speed can also be shown numerically on the LCD. The first ultra bright LED on the engine speed band is red and serves as a display for the permitted engine-speed threshold ('red area'). It flashes red when the engine speed limit is reached and it can be easily adjusted. The LC-display is transflektiv. This means that incident sunlight results in an automatic strengthening of the contrast between the background and the readings on the display. In addition, permanent backlighting and large numbers provide optimal readability under all conditions.

Operation

By pressing the push button at the handlebar it's possible to change between different display modes. Instead of installing an external push button, some people use their head-lamp-flasher-switch, because it's non-locking, pre-installed and easy to reach. Normally, the standard display on the LCD shows the vehicle speed. Other measurements can be called up on the display by pressing the menu push button. The device can be adjusted such that the display returns automatically to the speed indication after ten seconds. The menu push button is also used for the entry of all specific vehicle data in the device's computer.

All functions are easy to access, and the logical menu layout means that individual function presettings can easily be entered by the user. Naturally, presettings and stored values remain saved when the power supply is not operating.

Installation

Due to its compact dimensions and its elegant design, the motoscope light can be fitted on almost every bike. It can be used as a stand-alone instrument mounted on the fork bridge or it can be integrated into existing panels or cockpits. A stable fastening is ensured by three tapped holes (M4) on the back side of the instrument. In order to make installation as easy as possible we recommend using our universal mounting bracket kits.

Sensors and cable

Simple wiring and a detailed installation and instruction manual make the installation and connection of the motoscope light uncomplicated.

The wire for measuring engine speed is simply attached to the ignition coil or ignition box.

The inductive approximation sensor is supplied with the device. This high quality sensor serves for speed measurements and for recordings of distances covered. Usually it is attached to the fork bar. Its front end must be pointed towards metal parts that rotate in direct relationship to the driving speed, such as the brake disc screws. Due to the resulting high signal frequency per wheel turn (e.g. 6 brake disc screws) speed and distance measurements are precise and superior to every bicycle speedometer. Problems such as lost magnets and the unsightly remains of adhesive on wheel rims are a thing of the past. The high level of precision even permits measurement of positive and negative acceleration and a gear shift indicator. This small sensor (M8x22 mm) is made of stainless steel and complies with highest industrial standards (IP68). Its 1.5 m long connection cable can easily be attached to the front or rear wheel.

The motoscope light 'S' comprises the same functions as the version 'plus' but it can additionally trigger an external gear shift light in dependence of an individually adjustable value of engine speed.

Technical data and functions

length, height, width	120 x 57 x 30mm
weight	approx. 250 g
current consumption (only in use)	140- 400 mA max.
operating voltage	9 – 18V
operating temperature	-15° bis + 50°C

Function	Measurement range
rev counter (on LED band)	0 – 10 or 14 krpm
speedo	0 – 350 km/h or mi/h
daily odometer	to 999 km or mi
total odometer	to 250.000 km or mi
adjustm. of engine-speed threshold	0 – 14.000 rpm
rev counter (on LCD)	0 – 14.000 rpm
voltage	9 – 18 V
trip-time	0 – 99:99:99 h/min/s
current acceleration	(-15,0) – 15,0 m/s ²
average speed	0 – 350 km/h or mi/h
time measurement from 0 to 100 km/h	0,0 – 99,9 sec.
value of maximum speed	0 – 350 km/h or mi/h
value of maximum engine speed	0 – 14.000 rpm
max. positive acceleration	0 – 15,0 m/s ²
max. negative acceleration	0 – (- 15,0) m/s ²
NEW! gear shift indicator	1 – 6 gears
NEW! adjustable total odometer	to 250.000 km or mi
trigger output (only version S)	max. 2 A

Accessories and ordering

Suitably to the motoscope light, we offer the indicator panel 'motosign' which fits perfectly in size and design. Eight single LEDs in different colours indicate all common functions by illuminated graphic symbols.

Furthermore, we offer tuned accessories such as anodized holding brackets in design and colour of the instruments, screw kits, different push buttons, system plugs and gear shift flash lights.

Therefore a complete instrumentation is possible with tuned instruments and accessories by motogadget.

Please ask for latest developments, articles and prices on our web site. All items can be ordered directly under www.motogadget.com

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