



## Motogadget Motoscope mini

The motoscope mini is a highly compact digital instrument for motorbikes. The LED display we created for the motoscope mini is unique in the instrument realm. 251 ultra bright LEDs provide for an essentially rimless and extremely readable display surface which can entirely be used for the display of readings. This intricate and innovative technology combines a maximum of display surface with minimal casing dimensions. The unadorned and elegant design of the motoscope mini and its high class appearance fits every bike, trike or four-wheel vehicle. Exposed mounting can reinforce style and looks, but it might just as well be installed more discretely and 'clean' - with the mini, everything is possible! The motoscope mini available in polished- and anodized black aluminum.

### Casing

The high-quality aluminium casing is machined from solid metal and its surface is black anodized. The mirror polished variant has its own appeal. Electronics come completely moulded-in and are immune to weather, water, dust and vibrations.

### Display and features

The innovative, ultra bright 251-LED dot matrix shows the engine speed in a scalable horizontal bargraph and all other features as easily readable numeric values. With the push of a button, the engine speed can be displayed as numerical value (rpm) as well. For optimal readability in dark, sunlight and dawn conditions, the LED luminosity varies automatically. Specific engine speed thresholds can be programmed for the display to show the maximum permissible engine speed ('red zone') or a gear shift light with all LEDs pulsating simultaneously.

The kicker: The display of the motoscope mini not only displays numeric values from left to right but from top to bottom as well. Thus, the instrument may also be mounted vertically!

### Operation

You can toggle between the different informations on the LED display by operating the provided menu push-button or e.g. the headlight flasher push-button on the handle bar. By default, the display shows the speed value. Other values may be displayed via push-button operation if needed. A feature for automatically switching back to the speed value after a predetermined time or leaving the manually chosen value on the display is provided. Default settings or recorded values are of course stored even with the power supply switched off.

### Mounting

Due to its compact dimensions, the motoscope mini is easily mounted just about anywhere on any vehicle. Single mount on your triple clamp or right onto the handle bar, embedded into already present instrument panels, into the tank or FBE - this instrument is applicable anywhere. We offer universal mounts as well as brand specific solutions e.g. for Buell (TM) or Harley-Davidson (TM).

### Connection and sensors

Hassle-free wiring and the detailed installation and operating instructions enables even users without any previous experience in handling the vehicles electrical system to connect this instrument.

The supplied speedometer sensor in stainless steel is very small (M5/25 mm). The 1.5 m connector cable easily connects it to the front or back wheel. This permits easy conversions of originally mechanical speedometer drives.

The motoscope mini is compatible with various original speedometer sensors (reed contact and proximity sensors) used by motorbike manufacturers. In these cases, only the terminals have to be connected while the installation of mechanical sensors will be completely obsolete. An intelligent 'teaching' function provides for easy speedometer calibration - even in cases of vehicles with sensors at the gear box.

### Parts delivered

Instrument with approx. 75 cm connector cable, mini push-button, removable fuse, 6 cable end connectors, speedometer sensor (M5 x 0,5 fine-pitch thread, stainless steel, IP 68) with 150 cm connector cable, 2 powerful neodymium mini magnets, 2 mounting screws M3, detailed installation and operating instructions.

### Specifications/Features

- Length, Height, Depth: 59 mm/21.5 mm/13 mm.
- Weight: approx. 32 g.
- Mount: 2xM3 threaded hole.
- Power consumption, operating: approx. 100 mA.
- Operating voltage: 7 V - 18 V.
- Operating temperature: -20... +80 °C.

### Feature/Measuring range

- Rev counter (LED bargraph): 0 - 6, 8, 10 krpm.
- Rev counter (numeric): 0 - 20 krpm.
- Threshold adjustment/gear shift flash: 0 - 20000 rpm.
- Speedometer: 0 - 999 km/h or mi/h.
- Trip meter: 0 - 999.99 km or mi.
- Total distance (adjustable): 99999 km or mi max.
- Travel time display: 0 - 99:59 h/min.

Parts no: 75,3002010 Black and 75,3002030 Polished





## Motogadget Motosign Mini

The motosign mini is the indicator lights unit accompanying the motoscope mini. It is extremely compact and features 5 colored LEDs. Series resistors are integrated. The motoscope mini is available in polished- and anodized black aluminum.

### The casing

The high-quality aluminium casing is machined from a solid block using CNC technology and comes in anodized or mirror polished finish. Secure mounting with two threaded holes (M3) on back side. The components are completely moulded-in, the casing is water-tight and resistant to vibrations.

### Parts delivered

motosign mini with approx. 50 cm connector cable (9 wires), connecting diagram.  
Please note the two orange LEDs are replaced with green ones according to EU regulations since 2011.  
Please find further options to mount the motoscope mini combined with indicator lights under Brackets

### Specifications and Features

- Length, Height, Depth: 46 x 7 x 13 mm.
- Weight: approx. 18 g incl. cable.
- Number of LEDs: 5.
- Operating voltage: 9 - 18V.
- Operating temperature: -20... + 70 °C.
- Connector cable length: approx. 50 cm.
- Mounted via two M3 threaded holes in the back.

### LED colours:

- 2 x green for turn signal left/right or 1 x turn signal and 1 x hazard light.
- 1 x green for neutral.
- 1 x blue for high beam.
- 1 x red for hazard light.

Parts no. 75,3003010 Black and 75,3003030 Polished



## Motogadget msm Brackets to Motoscope and Motosign

### msm Combi Frame

The msm combi frame allows installation of motoscope mini to the handle bar with additional mounting hardware. 5 indicator lights and series resistors are pre-installed. The device is machined from solid aluminium and available in anodized or polished finish. The combi frame comes with approx. 50 cm cable, screws and manual. Additional mounting parts like the combi Clip-Kit Bracket, combi Bolt-On Bracket, combi Weld-In Bracket or combi Mounting Bracket are required. The motoscope mini is available in polished- and anodized black aluminum. The motoscope mini itself is not included.  
Please note the two orange LEDs are replaced with green ones according to EU regulations since 2011.  
Parts no. 75,3005010 Black and 75,3005030 Polished

### msm Weld-in Cup

The msm Weld-in Cup in stainless steel for facilitated embedding of the motoscope mini into the tank or weld-mounting it onto the handlebar.  
Parts no. 60,3004095 Stainless

### msm Combi Stainless Steel Weld-in Cup

msm Combi Stainless Steel Weld-in Cup for facilitated embedding of the combi frame into the tank or welding it, e.g. to the handlebar.  
Parts no. 60,3005059 Stainless

