

Mounting instructions electronic clock \varnothing 48 and 60 mm

Dear Customer,
you made a good selection buying this new **MMB** device.
The product should be installed by a person specialising in the installation of such devices.

1. Safety Instructions

To install the electric cables, use existing cable ducts and looms, but do not run the cables parallel to ignition cables or parallel to cables leading to powerful consumers. Secure the cables with cable binders or adhesive tape.

When you install the electric cables please also note:

- Do not run the cables over moving parts
- If the cables have to be run through drilled holes, protect the cables using grommets or rubber bushings etc.
- Ensure that the cables are not exposed to any tensile, compressive or shear forces.
- Use only a cable stripper to strip the cables. Adjust the cable stripper so that the individual strands are not damaged or cut off. New connections should be made only by using commercial crimp connectors.
- Crimped connections should be made only by using a cable crimping pliers.
- Insulate exposed leads in such a way that short circuits cannot occur.

Caution: Risk of short circuit through faulty junctions or damaged cables.

Please check all cables and connections for short circuits after you have finished the installation.

Short circuits in the electrical system can cause cable fires, battery explosions and damages to other electronic systems. Incorrect connections can lead to short circuits.

Use suitable tools for building-in the gauges and note the safety instructions of the tool manufacturers.

2. Content

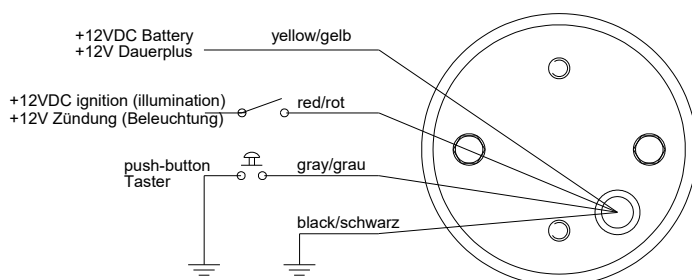
- 1 electronic clock with stepper motor

5. Electric connections

Before starting with the electric connections clamp the battery to disconnect it. Please note the safety instructions of item 1.



Connect the gauge according to the wiring diagram:



4. Mounting on the vehicle

The clock can be mounted into an instrument panel (a recess of $D = 48,5 + 0,5\text{mm}$ or $60,5 + 0,5\text{mm}$ in the panel is required). It can also be mounted on the handlebar with a clamp. Brackets and handlebar clamps are available as accessories.

5. Operating of the clock

To set the clock, a push-button is needed. The direction of the pointer is always forward. If you press button short, the clock hand move in minute-steps. If you press the button longer, the clock hands move faster.

6. Technical Data

- current consumption $< 1\text{ mA}$
- operating voltage 12 VDC
- housing diameter $48 / 60\text{ mm}$
- installation depth $46,5\text{ mm}$
- working temperature range $-20^{\circ}\text{C} \dots +85^{\circ}\text{C}$

4. Recycling notice

Please contact an authorised recycling company to dispose your wasted or inoperable devices properly. Our products are manufactured with utmost care and they are in accordance with the relevant DIN-Standards (German Industrial Standards)

Pulsotronic GmbH & Co. KG is not liable for damages arising from improper handling. Illuminating lamps are wearing parts and are excluded from guaranty.