

Klanata Universal 12V Motorcycle LCD Digital Speedometer and Odometer

Klanata Universal Motorcycle LCD Digital Speedometer and Odometer User Manual

Model: Universal 12V Digital Gauge

1. INTRODUCTION

Thank you for choosing the Klanata Universal 12V Motorcycle LCD Digital Speedometer and Odometer. This multi-function gauge is designed to provide essential riding data for 2 and 4 cylinder motorcycles with a DC 12V electrical system. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of the product.

1.1 What's in the Box

- 1 x Digital Speedometer Unit
- 1 x Speed Sensor

2. SAFETY INFORMATION

Warning:

- Always disconnect the motorcycle's battery before performing any electrical work.
- Improper installation can lead to electrical damage or malfunction. If you are unsure about the installation process, seek assistance from a qualified motorcycle technician.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not attempt to modify the speedometer unit, as this may void the warranty and cause damage.
- Always prioritize safe riding practices. Do not operate or adjust the speedometer while riding.

3. PRODUCT OVERVIEW

The Klanata Digital Speedometer is a versatile instrument designed to replace or upgrade your motorcycle's dashboard. It features a clear LCD display and various indicators to keep you informed while riding.

3.1 Key Features

- Digital display for speed (0-199 km/h or mph), trip distance (0-999.9 km or miles), and total odometer distance (0-99999.9 km or miles).
- Needle display for engine speed (tachometer) with a range of 0-12000 RPM.
- Integrated LED indicators for fuel level, low fuel warning, left/right turn signals, neutral gear (N), and high beam lights.
- Easy switching between MPH and KMH units.
- Adjustable wheelbase and pulse settings for compatibility with various motorcycle models.
- Suitable for 2 and 4 cylinder motorcycles with DC 12V power supply.

3.2 Components

The product package includes the main speedometer unit and a speed sensor. The speedometer unit integrates the display, control buttons, and wiring harness for connection to your motorcycle's electrical system.



Image: Overview of the Klanata Digital Speedometer unit, including the main display, speed sensor, and attached wiring

4. SETUP AND INSTALLATION

Installation of the digital speedometer requires basic electrical knowledge. It is recommended to have a professional install the unit if you are not familiar with motorcycle wiring.

4.1 Wiring Connections

The speedometer unit comes with a multi-pin wiring harness. Each wire corresponds to a specific function on your motorcycle's electrical system. Refer to your motorcycle's service manual for specific wiring diagrams. Common connections include:

- **Power (DC 12V):** Connect to a switched 12V power source.
- **Ground:** Connect to the motorcycle's chassis ground.
- **Ignition Signal:** For RPM readings.
- **Speed Sensor Input:** Connect the included speed sensor.
- **Turn Signals (Left/Right):** For indicator lights.
- **High Beam:** For indicator light.
- **Neutral Gear (N):** For indicator light.
- **Fuel Level Sensor:** For fuel gauge display.



Image: Rear view of the digital speedometer unit, showing the integrated wiring harness and its connection point to the main unit.



Image: Detailed view of the white multi-pin connectors on the wiring harness, illustrating the connection points for various motorcycle functions.

4.2 Speed Sensor Installation

Mount the provided speed sensor securely near a rotating part of your wheel (e.g., brake disc bolts) that can trigger the sensor. Ensure the sensor is positioned correctly to detect rotations and provide accurate speed readings. The sensor cable should be routed safely, away from moving parts and heat sources.

4.3 Mounting the Unit

Securely mount the speedometer unit on your motorcycle's dashboard or handlebars using appropriate brackets (not included unless specified). Ensure it is positioned for clear visibility while riding and does not obstruct your view or controls.



Universally applicable to all motorcycles with DC 12V
Suitable for all styles of motorcycles, 2 and 4 cylinders



Image: The Klanata Digital Speedometer installed on a motorcycle, demonstrating its universal applicability to DC 12V systems and various 2 and 4 cylinder motorcycle styles.

5. OPERATING INSTRUCTIONS

Once installed and powered on, the speedometer will display various information. Familiarize yourself with the display and controls.

5.1 Display Functions

- **Speed:** Digital display shows current speed in km/h or mph.
- **Tachometer:** Needle display indicates engine RPM (revolutions per minute).
- **Odometer (ODO):** Displays total accumulated distance.
- **Trip Distance:** Displays distance for the current trip. This can be reset.
- **Fuel Gauge:** LED segments indicate fuel level. A flashing segment or dedicated warning light indicates low fuel.
- **Gear Indicator:** Displays the current gear (if connected and supported).
- **Indicator Lights:** Separate LEDs for left turn, right turn, neutral (N), and high beam.



Image: Front view of the digital speedometer's LCD screen, showing the tachometer scale, total odometer reading, and current speed in kilometers per hour.



Image: The digital speedometer display highlighting features such as LED fuel quantity, low fuel warning, 0-12000 RPM needle display, LED direction lights, neutral, high beam, time, adjustable wheelbase, and adjustable pulse settings.

5.2 Switching Units (MPH/KMH)

The speedometer allows you to switch between miles per hour (mph) and kilometers per hour (km/h). Typically, this is done via a button on the unit. Consult the specific button layout on your device for this function. Press and hold the button for a few seconds to toggle between units.

5.3 Resetting Trip Distance

To clear the trip distance, locate the appropriate button (often labeled 'MODE' or 'SET') on the speedometer. With the trip distance displayed, press and hold the button until the value resets to zero.

6. MAINTENANCE

The Klanata Digital Speedometer is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, damp cloth to clean the display and casing. Avoid abrasive cleaners or solvents that could damage the plastic.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from

corrosion.

- **Sensor:** Ensure the speed sensor is clean and free from debris that could interfere with its operation.
- **Environmental Conditions:** The unit is designed to operate within a temperature range of -30°C to 85°C. Avoid exposing it to extreme temperatures outside this range for prolonged periods.

7. TROUBLESHOOTING

If you encounter issues with your speedometer, refer to the following common problems and solutions:

- **No Power/Display:**
 - Check the 12V power supply connection and ground wire.
 - Verify that the motorcycle's battery is charged and connections are secure.
 - Check for any blown fuses in the motorcycle's electrical system.
- **Incorrect Speed Reading:**
 - Ensure the speed sensor is correctly installed and detecting rotations.
 - Check the sensor wiring for damage or loose connections.
 - Verify the adjustable wheelbase and pulse settings are correctly configured for your motorcycle.
- **Tachometer Not Working:**
 - Check the ignition signal wire connection.
 - Ensure the unit is set for the correct number of cylinders (2 or 4).
- **Indicator Lights Not Functioning:**
 - Check the specific wiring for the non-functioning indicator (e.g., turn signal, high beam).
 - Ensure the corresponding motorcycle function is active.

If problems persist after troubleshooting, contact Klanata customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Item Type	Digital Speedometer
Material	ABS
Working Temperature	-30°C to 85°C (-22°F to 185°F)
Working Voltage	DC 9-16V
Application	Universal for DC 12V motorcycles (2 and 4 cylinders)
Speed Range	0-199 km/h or mph
Trip Distance Range	0-999.9 km or miles
Odometer Distance Range	0-99999.9 km or miles
Tachometer Range	0-12000 RPM

Package Dimensions	6.3 x 3.94 x 3.15 inches
Item Weight	1.01 pounds

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Klanata customer service through your purchase platform or the official Klanata website. Keep your purchase receipt as proof of purchase.