Polini 171.1001

Polini RPM 2 Temperature Meter 171.1001 Instruction Manual

Model: 171.1001

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Polini RPM 2 Temperature Meter, model 171.1001. This device is designed to monitor engine RPM and two temperature readings, providing critical data for motorcycle performance and health. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING:

This product is suitable for motorcycles used exclusively for its intended purpose. Improper installation or use can lead to damage to the device, the motorcycle, or personal injury. Always ensure the motorcycle's power is disconnected before performing any installation or maintenance. Consult a qualified technician if you are unsure about any steps.

- Ensure all electrical connections are secure and insulated to prevent short circuits.
- Do not modify the device or its components.
- Keep the device away from extreme heat, moisture, and corrosive substances.
- Always wear appropriate safety gear when working on your motorcycle.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Polini RPM 2 Temperature Meter display unit
- RPM sensor cable
- Two temperature sensor cables
- Wiring harness for power and signal connections

- Mounting accessories (e.g., Velcro strips, connectors)
- Instruction Manual (this document)

Figure 1: Overview of the Polini RPM 2 Temperature Meter and its included components. The image displays the main display unit, various wiring harnesses, two temperature sensors, an RPM sensor, and mounting accessories.

4. SETUP AND INSTALLATION

Follow these general steps for installing the Polini RPM 2 Temperature Meter. Specific installation points may vary depending on your motorcycle model.

1. **Mount the Display Unit:** Choose a suitable location on your motorcycle's dashboard or handlebars that provides clear visibility and does not obstruct controls. Use the provided mounting accessories (e.g., Velcro) to secure the display unit.
2. **Connect Power:** Connect the main wiring harness to a switched 12V power source on your motorcycle (e.g., ignition switch). Ensure proper polarity (positive to positive, negative to ground).
3. **Install RPM Sensor:**
   - For most motorcycles, the RPM sensor connects to the ignition coil's primary circuit or a dedicated RPM signal wire.
   - Wrap the RPM sensor wire around the spark plug cable or connect it to the appropriate signal wire as per your motorcycle's service manual.
   - Secure the sensor cable to prevent interference or damage.
4. **Install Temperature Sensors:**
   - Identify two locations for temperature monitoring (e.g., cylinder head, radiator hose, exhaust manifold).
   - Install the temperature sensors at these chosen points. This may require specific adapters or drilling, depending on the sensor type and location.
   - Connect the temperature sensor cables to the corresponding inputs on the display unit's wiring harness.
5. **Secure Wiring:** Route all cables neatly and secure them with cable ties to prevent them from

interfering with moving parts or being damaged by heat or abrasion.

6. **Initial Test:** After installation, turn on the motorcycle's ignition (do not start the engine yet) to verify the display unit powers on. Then, start the engine and check if RPM and temperature readings are displayed correctly.

5. OPERATING INSTRUCTIONS

The Polini RPM 2 Temperature Meter is designed for straightforward operation.

1. **Power On/Off:** The unit typically powers on automatically with the motorcycle's ignition and powers off when the ignition is turned off.

2. **Display Modes:** The display unit will show RPM and two temperature readings. There may be buttons on the unit to cycle through different display modes or to adjust settings. Refer to the on-screen prompts or specific button functions.

3. **Reading RPM:** The main display will show the engine's revolutions per minute (RPM).

4. **Reading Temperatures:** Two separate temperature readings will be displayed, corresponding to the installed sensors. Units are typically in Celsius or Fahrenheit, depending on the model's configuration.

5. **Setting Alarms (if applicable):** Some models may allow setting high RPM or temperature alarms. Consult the device's specific interface for instructions on setting these thresholds.

6. MAINTENANCE

To ensure the longevity and accuracy of your Polini RPM 2 Temperature Meter, follow these maintenance guidelines:

- **Cleaning:** Wipe the display unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- **Cable Inspection:** Periodically check all cables and connections for wear, fraying, or corrosion. Replace damaged cables immediately.

- **Sensor Check:** Ensure temperature sensors are securely mounted and free from debris.

- **Environmental Protection:** While designed for motorcycle use, avoid prolonged exposure to extreme weather conditions when possible.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not power on.	No power supply; incorrect wiring; blown fuse.	Check power connections; verify wiring polarity; inspect motorcycle's fuse box.
No RPM reading.	RPM sensor not connected; faulty sensor; incorrect sensor placement.	Ensure RPM sensor is securely connected; verify sensor placement on ignition coil/wire.
Incorrect temperature reading.	Temperature sensor not connected; faulty sensor; improper sensor installation.	Check temperature sensor connections; ensure sensors are correctly installed at measurement points.

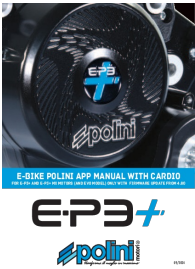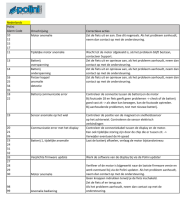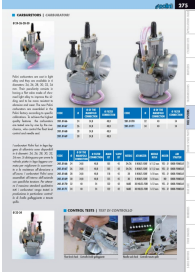| Problem	Possible Cause	Solution
Display flickering or erratic readings.	Loose connections; electrical interference; faulty unit.	Inspect all wiring for loose connections; ensure proper grounding; contact support if problem persists.

8. SPECIFICATIONS

- **Brand:** POLINI
- **Model Number (Product Identifier):** 171.1001
- **Item Model Number (Manufacturer's Internal):** MVT-002075896
- **Material:** Alloyed Steel (for certain components/sensors)
- **Item Weight:** 5 kg (11.02 pounds)
- **UPC:** 689326164124
- **Manufacturer:** MotoCapuano
- **First Available Date:** March 26, 2020

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer, MotoCapuano, or your authorized Polini dealer. Keep your proof of purchase for warranty claims.

Related Documents - 171.1001

[Polini E-bike App Manual with Cardio: E-P3+/E-P3+ MX Guide](#)
This manual provides instructions for using the Polini E-bike App with Cardio features for E-P3+ and E-P3+ MX motors. It covers app download, connection, display customization, cardio sensor pairing, map setup, statistics, diagnostics, and device settings. Polini: 'trasforma il meglio in massimo'.

[Polini Updater Manual: Firmware Update Guide for E-bike Motors](#)
Step-by-step guide to updating the firmware for Polini E-P3, E-P3 MX, E-P3+, and E-P3+ MX+ e-bike motors using the Polini Updater software.

[Polini Updater Instructions for E-P3, E-P3 MX, E-P3+, E-P3+ MX+ Motors](#)

Step-by-step instructions for updating the firmware of Polini E-P3 series electric bike motors using the Polini Updater software. Includes guidance on installation, operation, and recovery procedures.

[Polini E-P3+ E-bike Motor System User's Manual](#)

Comprehensive user's manual for the Polini E-P3+ electric bike motor system, covering installation, operation, safety, maintenance, and troubleshooting. Learn how to maximize your e-bike experience with Polini.

[Polini E-bike Foutcodes en Oplossingen](#)

Uitgebreide lijst van Polini e-bike motorfoutcodes, hun beschrijvingen en corrigerende acties om problemen te helpen diagnosticeren en oplossen.

[Polini Carburetors and Jet Sets - Technical Specifications](#)

Detailed technical specifications and product listings for Polini carburetors, including main jets, slow jets, and needle measures for various models like Dell'Orto, Keihin, PWK, and Mikuni.