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> HanOaki Digital Voltmeter Ammeter Multimeter Panel User Manual

HanOaki 9Y1CAOK280JC4UB3OYUA6VEO

HanOaki Digital Voltmeter Ammeter Multimeter Panel User Manual

Model: 9Y1CAOK280JC4UB3OYUA6VEO | Brand: HanOaki

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your HanOaki Digital Voltmeter Ammeter Multimeter Panel. This compact device is designed for accurate real-time monitoring of DC current and voltage, suitable for various applications including automotive, DIY electronics, and independent power supply systems. Please read this manual thoroughly before use to ensure proper function and safety.

2. SAFETY INFORMATION

- Always ensure the power supply is disconnected before making any wiring connections to prevent electrical shock or damage to the device.
- Verify correct polarity when connecting the power supply and measurement leads. The device includes reverse polarity protection, but incorrect wiring can still lead to malfunction or damage.
- Do not exceed the specified voltage and current ranges (DC 3.5-30V for supply, 0-3.0000A for measurement) to avoid damaging the meter.
- Operate the device within the specified temperature range of -10°C to 65°C.
- Keep the device away from moisture, dust, and corrosive environments.

3. PACKAGE CONTENTS

The package should contain the following item:

- 1x HanOaki Digital Current Meter

4. PRODUCT OVERVIEW AND FEATURES

The HanOaki Digital Voltmeter Ammeter Multimeter Panel is a compact and precise instrument for electrical monitoring. Key features include:

- Compact Design:** Measures 48mm × 29mm × 22mm, allowing for easy integration into tight spaces.
- High Accuracy:** Precise measurement range of 0-3.0000A with $\pm(5\% + 2 \text{ digits})$ accuracy.

- **Bright LED Display:** Features a 0.36-inch 5-digit LED screen for clear visibility in various lighting conditions. Available display colors include Red, Yellow, Blue, and Green.
- **Fast Refresh Rate:** Updates readings over 3 times per second for real-time monitoring.
- **Reverse Connection Protection:** Built-in protection to prevent damage from incorrect polarity.
- **Wide Compatibility:** Includes 14cm four-core leads for easy setup in diverse applications.



Figure 4.1: Front view of the HanOaki Digital Ammeter with a red LED display, indicating a zero current reading.



Figure 4.2: HanOaki Digital Ammeter with a yellow LED display, highlighting its 0.36-inch 4-wire configuration and 0-3.0000A measurement range.

5. SPECIFICATIONS

Parameter	Value
Part Name	Digital Current Meter
Color (Housing)	Black
Material	Plastic
Voltage Range (Measurement)	DC: 0-4.3000-33.000V (variable accuracy)
Supply Voltage	DC: 3.5-30V
Measurement Accuracy	±(5‰ + 2 digits)
Refresh Rate	>3 times per second
Display	5-digit 0.36" LED display
Display Colors	Red, Yellow, Blue, Green
Leads Length	14cm (four wires)
Operating Temperature	-10°C to 65°C
Opening Size	45mm * 26mm
External Dimensions	48mm * 29mm * 22mm
Weight	14g/unit (with case)

6. SETUP AND WIRING INSTRUCTIONS

Proper wiring is crucial for the correct operation and longevity of your digital current meter. Follow these steps carefully:

1. **Identify Wires:** The device comes with four wires:
 - **Red wire (+):** Power supply positive.
 - **Black wire (-):** Power supply negative.
 - **Red wire (VIN+):** Measurement signal positive.
 - **Black wire (VIN-):** Measurement signal negative.

2. **Connect Power Supply:** Connect the **Red wire (+)** to the positive terminal of a DC power supply within the 3.5-30V range. Connect the **Black wire (-)** directly to the negative terminal of the power supply (VIN-).
3. **Connect Measurement Signal:** Connect the **Red wire (VIN+)** to the positive point of the circuit you wish to measure. Connect the **Black wire (VIN-)** to the negative point of the circuit you wish to measure. Note that the measurement signal negative (VIN-) is typically common with the power supply negative.
4. **Installation:** The meter requires an opening size of 45mm x 26mm for panel mounting. Ensure sufficient space for the external dimensions of 48mm x 29mm x 22mm.



Figure 6.1: The HanOaki Digital Ammeter, illustrating its compact form factor and red display variant, ready for panel integration.

7. OPERATING INSTRUCTIONS

Once properly wired and powered, the HanOaki Digital Current Meter will automatically display the measured current or voltage on its 5-digit LED screen.

- **Reading the Display:** The 0.36-inch LED display shows the current or voltage value with high precision. The decimal point position will adjust automatically based on the measured range.
- **Real-Time Monitoring:** The meter updates its readings more than three times per second, providing near real-time data for dynamic electrical systems.
- **Automatic Adaptation:** The voltage measurement range (0-4.3000V to 33.000V) adapts automatically.



Figure 7.1: The HanOaki Digital Ammeter featuring a blue LED display, showing a zero reading, indicating readiness for measurement.



Figure 7.2: The HanOaki Digital Ammeter with a green LED display, showing a zero reading, demonstrating another color option for the display.

8. MAINTENANCE

The HanOaki Digital Current Meter is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the display and housing. Do not use abrasive cleaners or solvents, as they may damage the plastic or display.
- **Storage:** When not in use for extended periods, store the meter in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check the wiring connections to ensure they are secure and free from corrosion or damage.

9. TROUBLESHOOTING

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

- **No Display:**
 - Check if the power supply (DC 3.5-30V) is correctly connected to the red (+) and black (-) power wires.
 - Ensure the power supply is active and providing the correct voltage.
 - Verify that the power wires are not damaged or short-circuited.
- **Incorrect Reading / Flashing Display:**
 - Confirm that the measurement signal wires (red VIN+ and black VIN-) are correctly connected to the circuit being

measured.

- Ensure the measured current or voltage is within the specified range (0-3.0000A for current, 0-33.000V for voltage).
- Check for loose connections or interference from other electrical components.

- **Display Shows 'HHHHH' or 'LLLLL':**

- This typically indicates an over-range or under-range condition. Ensure the measured value is within the meter's operational limits.

10. WARRANTY AND SUPPORT

HanOaki products are manufactured to high-quality standards. For specific warranty information, please refer to the purchase documentation or contact your retailer. If you require technical assistance or have questions not covered in this manual, please contact HanOaki customer support through the vendor's official channels or the platform where the product was purchased.

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