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› [Walfront](#) /

› [Walfront LED AC Voltage Current Indicator Light Panel Digital Display User Manual \(Model Walfrontfu7ngo63aq-03\)](#)

Walfront Walfrontfu7ngo63aq-03

Walfront LED AC Voltage Current Indicator Light Panel Digital Display User Manual

Model: Walfrontfu7ngo63aq-03

1. PRODUCT OVERVIEW

The Walfront LED AC Voltage Current Indicator Light is a compact digital display designed for monitoring AC voltage and current in electrical systems. This device provides clear, real-time readings, making it suitable for various industrial and home applications where electrical parameter monitoring is essential. It features a panel-mount design for easy integration into control panels or enclosures.

Key Features:

- **Digital Display:** Equipped with a clear LED display for easy reading of voltage and current values.
- **Wide Measurement Range:** Measures AC voltage from 60V to 500V and AC current from 0A to 100A.
- **High Accuracy:** Provides stable and precise measurements for reliable monitoring.
- **Compact Design:** Small form factor with a 22mm installation size for flush panel mounting.
- **Durable Construction:** Made from quality materials for long-term service.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Qualified Personnel:** Installation and maintenance should only be performed by qualified electrical personnel.
- **Power Disconnection:** Always disconnect power to the circuit before installing or servicing the device.
- **Voltage Limits:** Do not exceed the specified voltage range of 60-500V AC.
- **Current Limits:** Do not exceed the specified current range of 0-100A.
- **Proper Wiring:** Ensure all connections are secure and correctly wired according to the diagram.
- **Environmental Conditions:** Do not expose the device to excessive moisture, dust, or extreme temperatures outside its operating range (0 to 50 °C).

3. PRODUCT COMPONENTS

The Walfront LED AC Voltage Current Indicator Light system typically includes the following components:

- **Digital Display Unit:** The main unit with the LED screen for voltage and current readings.
- **Current Transformer (CT):** A toroidal coil used to measure AC current without direct contact with the main circuit.
- **Connecting Wires:** Wires for power supply and current transformer connection.



Figure 3.1: Overview of the Walfront LED AC Voltage Current Indicator Light and its current transformer.



Figure 3.2: Close-up view of the digital display, showing voltage (V) and amperage (A) readings.



Figure 3.3: The current transformer (CT) component, marked 0-100A, used for current measurement.

4. SPECIFICATIONS

Parameter	Value
Model Number	Walfrontfu7ngo63aq-03
Color	Blue (as per current product)
Shape	Rectangular
Material	Plastic
Light Source Type	Light Emitting Diode (LED)
Voltage Measurement Range	AC 60-500V
Current Measurement Range	AC 0-100A
Installation Size	Approx. 22mm (0.87")
Mounting Type	Panel Mount
Product Dimensions	2.17"L x 1.18"W x 1.18"H (approx.)
Item Weight	Approx. 1.65 ounces (47g)
Ambient Temperature	0 to 50 °C

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the LED AC Voltage Current Indicator Light.

5.1 Panel Mounting

1. Ensure the power supply to the panel is completely disconnected.
2. Drill a 22mm (0.87 inch) diameter hole in the desired mounting location on your control panel or enclosure.
3. Insert the digital display unit into the drilled hole from the front of the panel.
4. Secure the unit from the back using the rotating fasteners provided, ensuring a snug fit.

5.2 Wiring Instructions

Refer to the wiring diagram below for correct connections. It is crucial to follow the diagram precisely to avoid damage to the device or electrical hazards.

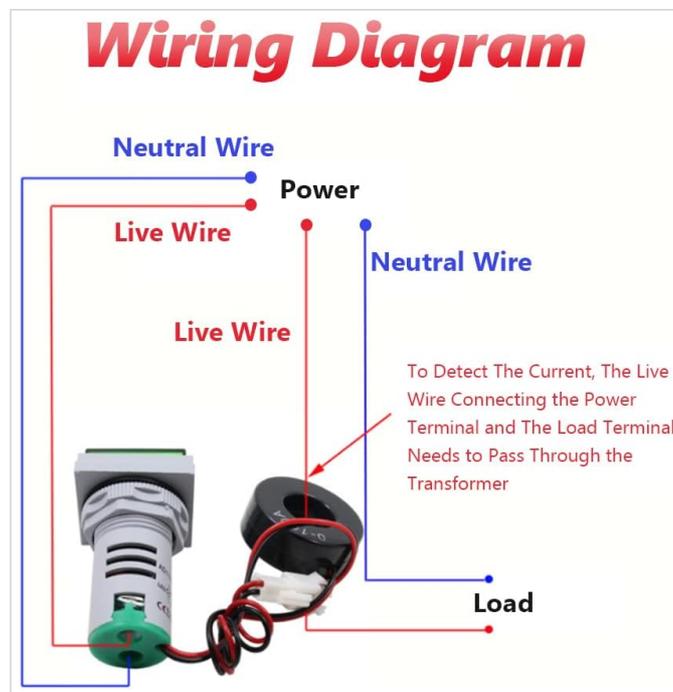


Figure 5.1: Wiring Diagram for the Walfront LED AC Voltage Current Indicator Light.

1. **Power Connection:** Connect the two small wires (typically red and black) from the digital display unit to the AC power source (Live and Neutral) that you wish to monitor. This powers the display unit itself. The voltage range for this connection is 60-500V AC.
2. **Current Transformer (CT) Connection:** The current transformer has two wires (typically red and black) that connect to the corresponding terminals on the digital display unit.
3. **Current Measurement:** To detect the current, the live wire of the circuit (the one connecting the power terminal and the load terminal) must pass through the center hole of the current transformer. Ensure only one live wire passes through the CT for accurate measurement. Do not pass the neutral wire through the CT.
4. **Secure Connections:** Double-check all wiring for tightness and correct polarity before restoring power.

6. OPERATION

Once properly installed and powered, the Walfront LED AC Voltage Current Indicator Light will automatically display the measured AC voltage and current values on its digital screen.

- **Voltage Display:** The upper part of the display shows the AC voltage in Volts (V).
- **Current Display:** The lower part of the display shows the AC current in Amperes (A).
- **Measurement Range:** The device is designed to measure voltage between 60V and 500V AC, and current between 0A and 100A AC.

7. MAINTENANCE

The Walfront LED AC Voltage Current Indicator Light requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the display and housing. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections for any signs of wear, corrosion, or looseness.
- **Environmental Protection:** Ensure the device remains within its specified operating temperature and humidity ranges to prolong its lifespan.

8. TROUBLESHOOTING

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

- **No Display:**

- Check if the power supply to the indicator is connected correctly and within the 60-500V AC range.
- Verify that the power source is active.

- **Incorrect Current Reading (0A or very low):**

- Ensure the live wire of the load circuit passes correctly through the current transformer.
- Confirm that the load is drawing current.
- Note: The meter may not accurately read currents below 1 Ampere.

- **Incorrect Voltage Reading:**

- Verify the input voltage is within the 60-500V AC measurement range. The device is not designed for voltages below 60V AC.
- Check the power connections for the display unit.

- **Flickering Display:**

- Ensure stable power supply to the unit.
- Check for loose connections.

If the problem persists after attempting these troubleshooting steps, contact customer support.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Walfront website. Keep your purchase receipt as proof of purchase for any warranty claims.

Walfront Customer Support: For assistance, please visit [Walfront Store on Amazon](#).

Related Documents - Walfrontfu7ngo63aq-03

 <p>ROGOWSKI CURRENT TRANSFORMER AND MEASUREMENT TRANSDUCER</p> <p>Janitza</p>	<p>Janitza Rogowski Current Transformer and Measurement Transducer</p> <p>Discover Janitza's Rogowski current transformers and measurement transducers for precise AC current measurement in energy monitoring systems. Explore features, technical specifications, and application advantages for smart energy solutions.</p>
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[Cisco RV34xx Router Firmware Release Notes](#)

Comprehensive release notes for Cisco RV34xx routers, detailing firmware updates from version 1.0.00.33 to 1.0.03.22. Includes resolved issues, known issues, new features, and upgrade procedures.



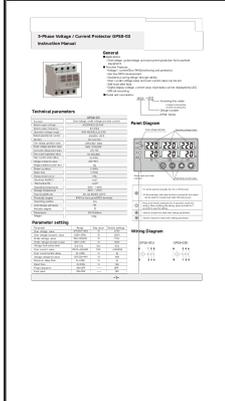
[Janitza UMG 806 Power Analyzer Installation Instructions](#)

Installation instructions for the Janitza UMG 806 Power Analyzer, covering general information, safety guidelines, assembly, connection, operation, and technical specifications. Includes details on electrical parameters, network systems, and PC connectivity.



[Cisco RV34xx Router Firmware Release Notes](#)

This document provides release notes for Cisco RV34xx routers, detailing resolved and known issues across various firmware versions from 1.0.00.33 up to 1.0.03.29. It includes information on new features, bug fixes, and important notes for upgrading and downgrading firmware.



[3-Phase Voltage / Current Protector GPS8-03 Instruction Manual](#)

Instruction manual for the GEYA 3-Phase Voltage / Current Protector GPS8-03, detailing its applications, features, technical parameters, parameter settings, wiring diagrams, and operational functions.



[JTPD-03-001 LED Matrix Panel User Manual and Specifications](#)

This document provides an overview, features, specifications, and usage instructions for the JTPD-03-001 LED Matrix Panel by Shenzhen Juntong Technology Co., Ltd. It details its Bluetooth connectivity, USB power, app control, and button control functionalities, along with FCC compliance information.