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> [CHBMSS GE4-P61A Digital Counter Module User Manual](#)

CHBMSS GE4-P61A

CHBMSS GE4-P61A Digital Counter Module User Manual

Model: GE4-P61A

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the CHBMSS GE4-P61A Digital Counter Module. Please read this manual thoroughly before using the device to ensure proper function and safety. Keep this manual for future reference.

2. PRODUCT OVERVIEW AND FEATURES

The CHBMSS GE4-P61A is a reliable digital counter module designed for precise and dependable counting performance across various industrial applications. Its robust design and clear display make it an essential tool for monitoring signal inputs.



Image 1: Front panel of the CHBMSS Digital Counter Module. It features a dual-line LCD display for numerical readings, and control buttons labeled 'MODE', '>>' (forward/select), '^' (up/increment), and 'RST' (reset). Indicators for SET1, SET2, BAT, TIM, CNT, OUT1, OUT2, BAT.O, and LOCK are visible. The model number 'GE4-P42' is printed on the bottom right, though this manual pertains to the GE4-P61A model.

Key Features:

- **Digital Counter:** Utilizes digital counting technology, eliminating mechanical wear for an extended service life.
- **LCD Display:** Equipped with an electronic LCD display for clear, precise, and reliable readings.
- **Precise and Reliable:** Engineered to deliver accurate and dependable counting performance in various environments.
- **Easy Installation:** Features strong anti-interference capabilities, ensuring straightforward and stable installation.
- **Wide Application:** Compatible with a broad range of signal inputs, including photoelectric switches, proximity switches, reed switches, microswitches, magnetic switches, solid-state components, and various relays and changeover contacts.

3. SAFETY INFORMATION

- Ensure all power is disconnected before installation or maintenance to prevent electrical shock.
- Only qualified personnel should perform installation and wiring.
- Do not expose the module to excessive moisture, dust, or extreme temperatures.
- Verify correct voltage and current ratings before connecting to a power source.
- Avoid physical impact or dropping the device.

4. SETUP AND INSTALLATION

The GE4-P61A module is designed for easy integration into existing systems. Follow these general guidelines for installation:

1. **Mounting:** Securely mount the counter module in a suitable enclosure or panel, ensuring adequate ventilation.
2. **Power Connection:** Connect the module to a stable power supply according to the wiring diagram provided with the product packaging. Ensure correct polarity.
3. **Input Signal Connection:** Connect your signal sources (e.g., photoelectric switch, proximity switch) to the designated input terminals. Refer to the product's specific wiring diagram for terminal assignments.
4. **Output Connection (if applicable):** If using the module's output functions, connect external devices (e.g., relays) to the output terminals as per the wiring diagram.
5. **Initial Power-Up:** After all connections are verified, apply power to the module. The LCD display should illuminate.

Due to its strong anti-interference capability, the module is robust against electrical noise, simplifying installation in industrial environments.

5. OPERATION

The GE4-P61A features an intuitive interface for setting parameters and monitoring counts.

Basic Functions:

- **LCD Display:** The dual-line LCD shows current count values and parameter settings. The upper line typically displays the main count, while the lower line may show auxiliary information or set points.
- **MODE Button:** Press the 'MODE' button to cycle through different operating modes or parameter settings. Each press typically advances to the next mode or setting.
- **'>>' (Forward/Select) Button:** Used to move the cursor, select digits, or confirm a setting within a mode.
- **'^' (Up/Increment) Button:** Used to increase numerical values or scroll through options when setting parameters.
- **RST (Reset) Button:** Press this button to reset the current count value to zero. Depending on the configuration, a long press might be required for a full reset.

Setting Parameters:

To adjust settings such as count direction, input type, or output trigger points, enter the parameter setting mode by pressing the 'MODE' button. Use the '>>' and '^' buttons to navigate and modify values. Always refer to the detailed programming guide (if provided with the product) for specific parameter codes and

their functions.

6. MAINTENANCE

The CHBMSS GE4-P61A Digital Counter Module requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically clean the exterior of the module with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for looseness or damage. Ensure the module is free from dust and debris accumulation.
- **Battery (if applicable):** If the module uses an internal battery for memory retention (indicated by 'BAT' or 'BAT.O' on the display), monitor its status. Replace the battery as per manufacturer recommendations if a low battery indicator appears.

7. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions:

Problem	Possible Cause	Solution
Display is blank	No power, incorrect wiring, or internal fault.	Check power supply and connections. Verify wiring against the diagram. If problem persists, contact support.
Counter not incrementing	Input signal issue, incorrect input settings, or sensor malfunction.	Verify input signal source. Check module's input settings (e.g., NPN/PNP, counting mode). Test the sensor independently.
Incorrect count value	Noise interference, incorrect scaling factor, or faulty sensor.	Ensure proper shielding for input cables. Check scaling factor settings. Verify sensor operation.
Buttons unresponsive	Module locked, or internal fault.	Check for 'LOCK' indicator on display. Refer to manual for unlocking procedure. If unresponsive, power cycle the device.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact CHBMSS customer support for assistance.

8. SPECIFICATIONS

Attribute	Value
Model Number	GE4-P61A
Manufacturer	CHBMSS
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	9.17 ounces

Attribute	Value
ASIN	B0FPX28TND

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact CHBMSS customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

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