Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Vernijtrdy GP4-WLTE (Model 500710731A2)

Vernijtrdy GP4-WLTE Smart 4G Controller User Manual

Model: GP4-WLTE (500710731A2)

1. Product Overview

The Vernijtrdy GP4-WLTE is an intelligent 4G remote controller designed for various industrial and automation applications. It features 4 channels of Digital Input (DI), Digital Output (DO), and Analog Quantity Input (AI), enabling comprehensive monitoring and control.
Key functionalities include:

- **4-channel Digital Input (DI):** Supports passive switch values (dry contact) for detection.
- **4-channel Digital Output (DO):** Equipped with relay output (10A@AC250V/DC30V) for controlling external devices.
- **4-channel Analog Quantity Input (AI):** Supports 4-20mA current input with 12-bit accuracy.
- **Control Methods:** Operates via "WLTE Control" mobile application and SMS commands.
- **Network Compatibility:** Supports 2G/4G mobile data networks.
- **Wide Voltage Range:** Operates within 9V to 24V DC.



Figure 1.1: Vernijtrdy GP4-WLTE Smart 4G Controller with included antenna.

2. Package Contents

Upon opening the package, verify that all components are present:

- 1 x GP4-WLTE GSM SMS APP Controller
- 1 x DC12V Power Adapter (US Plug, suitable for Canada, India, Mexico, Thailand, Taiwan, the Philippines, etc.)
- 1 x External Antenna
- 1 x English Manual (this document)

Note: Sensors are not included in the standard kit.

3. Setup and Installation

3.1. Physical Installation

1. **Mounting:** Secure the GP4-WLTE controller in a stable location using the integrated mounting tabs. Ensure

adequate ventilation.

2. **SIM Card Insertion:** Locate the Micro SIM slot on the device. Insert a valid 2G/4G Micro SIM card. Ensure the SIM card is activated and has sufficient data/SMS credit. Device only supports 2G/4G, not 3G.



Figure 3.1: Top view of the GP4-WLTE controller, highlighting the Micro SIM slot and terminal blocks.

3. **Antenna Connection:** Connect the external antenna to the designated antenna port on the controller. Position the antenna for optimal signal reception.
4. **Power Connection:** Connect the DC12V power adapter to the controller's power input (9-24V DC). Ensure the power source matches the specified voltage range.

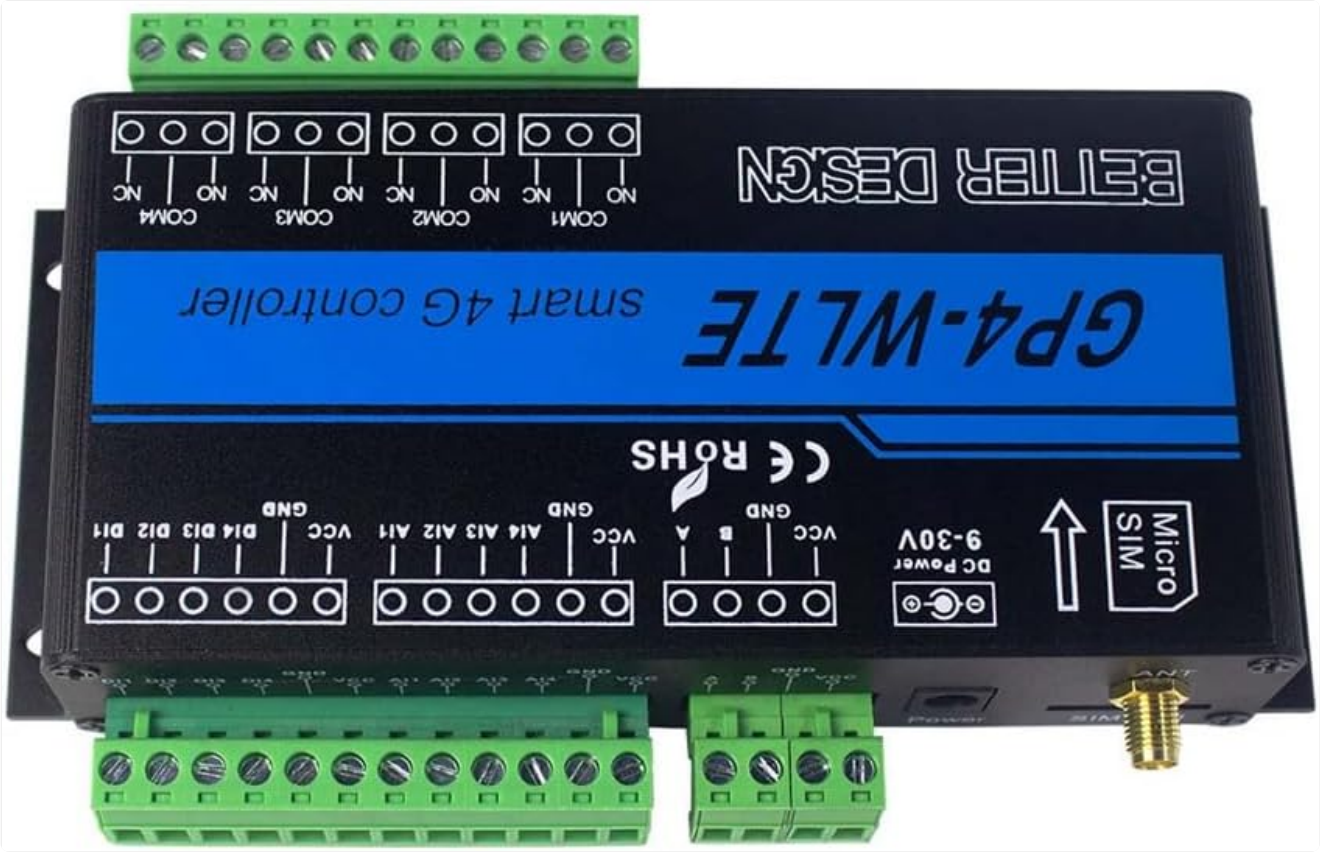


Figure 3.2: Bottom view of the GP4-WLTE controller, showing the power input and other terminal connections.

3.2. Wiring Digital Inputs (DI)

The GP4-WLTE supports 4 channels of digital input (DI1-DI4) for passive switch values (dry contact). Connect your sensors or switches to the DI terminals as shown in the diagram below. Each DI channel has a corresponding GND terminal.



Figure 3.3: Side view of the GP4-WLTE controller, illustrating the Digital Input (DI) and Analog Input (AI) terminal blocks.

3.3. Wiring Analog Inputs (AI)

The controller provides 4 channels of analog input (AI1-AI4) supporting 4-20mA current signals. Connect your analog sensors to the AI terminals. Ensure correct polarity and current loop configuration.

3.4. Wiring Digital Outputs (DO) / Relays

The GP4-WLTE features 4 relay outputs (COM1-COM4, NO, NC) with a rating of 10A@AC250V/DC30V. Connect the devices you wish to control to these relay terminals. Each relay has a Normally Open (NO) and Normally Closed (NC) contact, along with a Common (COM) terminal.



Figure 3.4: Close-up view of the relay output terminals (COM, NO, NC) on the GP4-WLTE controller.

4. Operating Instructions

4.1. Mobile Application Control ("WLTE Control" APP)

The primary method for controlling and configuring the GP4-WLTE is through the "WLTE Control" mobile application. This app can be downloaded from your device's app store.

1. **Download and Install:** Search for "WLTE Control" in your mobile app store and install it.
2. **Device Pairing:** Follow the in-app instructions to pair your GP4-WLTE controller. This typically involves entering the device's unique ID or scanning a QR code (if available).
3. **Parameter Configuration:** Use the app to configure various parameters, including:
    - Relay output control (ON/OFF).
    - Monitoring of digital input states.
    - Reading analog input values (4-20mA).
    - Setting up alarm thresholds for analog inputs.
    - Configuring SMS alarm recipients.
    - Linking DI/AI events to DO actions for automation logic.

4.2. SMS Control

The GP4-WLTE also supports control via SMS commands for simpler operations and alarms.

- **Relay Control:** Send specific SMS commands to the controller's phone number to turn relays ON or OFF. Refer to the app or device documentation for the exact command syntax.
- **Alarm Notifications:** The controller can be configured to send SMS alarm messages to pre-defined phone numbers when certain conditions are met (e.g., analog input exceeds a threshold).

5. Maintenance

The GP4-WLTE controller is designed for low maintenance. However, regular checks can ensure optimal performance:

- **Cleanliness:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Connections:** Periodically check all wiring connections (power, DI, AI, DO, antenna) to ensure they are secure and free from corrosion.
- **Signal Strength:** Monitor the 4G signal strength, especially if experiencing connectivity issues. Adjust antenna position if necessary.
- **Firmware Updates:** Check the "WLTE Control" app or the manufacturer's website for any available firmware updates. Follow instructions carefully for updates.

6. Troubleshooting

Problem	Possible Cause	Solution
Device not powering on.	Incorrect power supply; Loose power connection; Faulty power adapter.	Verify power adapter output (DC12V); Check power cable connection; Try a different power outlet.
No 4G network connection.	SIM card not inserted correctly; SIM card not activated or no credit; Poor signal reception; Incorrect SIM card type (only 2G/4G supported).	Reinsert SIM card; Check SIM card status with carrier; Reposition antenna or device; Ensure SIM card supports 2G/4G.
Cannot control relays via APP/SMS.	No network connection; Incorrect APP configuration; Incorrect SMS command syntax; Relay wiring issue.	Check network status; Verify APP settings and device pairing; Confirm SMS command format; Inspect relay wiring.
Analog input readings are inaccurate.	Incorrect sensor wiring; Sensor malfunction; Interference.	Check AI wiring polarity and connections; Test sensor independently; Ensure proper shielding if interference is suspected.

7. Specifications

Feature	Detail
Model	GP4-WLTE (500710731A2)
Input Voltage	DC 9V - 24V
Digital Inputs (DI)	4 channels, supports passive switch values (dry contact)
Analog Inputs (AI)	4 channels, 4-20mA current input, 12-bit accuracy
Digital Outputs (DO) / Relays	4 channels, 10A @ AC250V / DC30V (NO & NC contacts)
Network Support	2G/4G (Does not support 3G)
Control Methods	Mobile APP ("WLTE Control"), SMS

Feature	Detail
Dimensions	20 x 12 x 5 cm (Product); 155mm x 65mm x 32mm (Device)  Figure 7.1: Physical dimensions of the GP4-WLTE controller.
Weight	452 g

8. Applications

The Vernijtrdy GP4-WLTE controller is versatile and suitable for a wide range of applications, including but not limited to:

- **Access Control Systems:** Remote management of gates and doors.
- **Building Automation:** Control of lighting, HVAC, and other building systems.
- **Industrial Automation:** Monitoring and control of machinery and processes.
- **Agriculture:** Pumped irrigation, greenhouse environmental control, seedling cultivation, aquatic product management.
- **Home Appliance Control:** Remote operation of household appliances.
- **Solar Energy Projects:** Integration into solar power systems for monitoring and control.
- **Door Openers:** Remote control of electric gates and rolling gates.



Figure 8.1: Illustrative applications of the GP4-WLTE controller.



Figure 8.2: Further illustrative applications, including solar energy and door control.

9. Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Vernijtrdy website. Keep your purchase receipt as proof of purchase.

The product is subject to the return policy of the retailer, which typically allows for returns or replacements within 30 days of purchase.

© 2025 Vernijtrdy. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0F4KFLGZN

More documents and user manuals: **https://manuals.plus/**