

Instructions for ML-K501G GSM Wireless Data Terminal

1. Product Pictures



2. Equipment Main Functions

- A、 Make judgment of collected data
- B、 Data transmission

3. Physical Property

Housing Material: Aluminium
Weight: about 800 g
Color: white
Outlook: 192*200*70mm
Protection grade: IP34
Installation: wall-mounted

4. Electrical characteristics

Working Voltage: +11V DC (MAX 1000mA)
Working current: less than 1000mA

Reliability: MTBF more than 70000 hours

Working life: longer than 15 years

Communication interface:GPRS transmission、RS485 data collection

5. Main technical parameters

Frequency Range

Emission frequency: GSM 850: 824.2MHz ~ 848.8MHz

PCS 1900: 1850.2MHz ~ 1909.8MHz

Reception frequency: GSM 850: 869.2MHz ~ 893.8MHz

PCS 1900: 1930.2MHz ~ 1989.8MHz

Transmitted Power: $P \leq 33\text{dBm}$

Frequency Error: within $\pm 300\text{Hz}$

Occupied Bandwidth: In line with the spectrum framework

Radio category: III

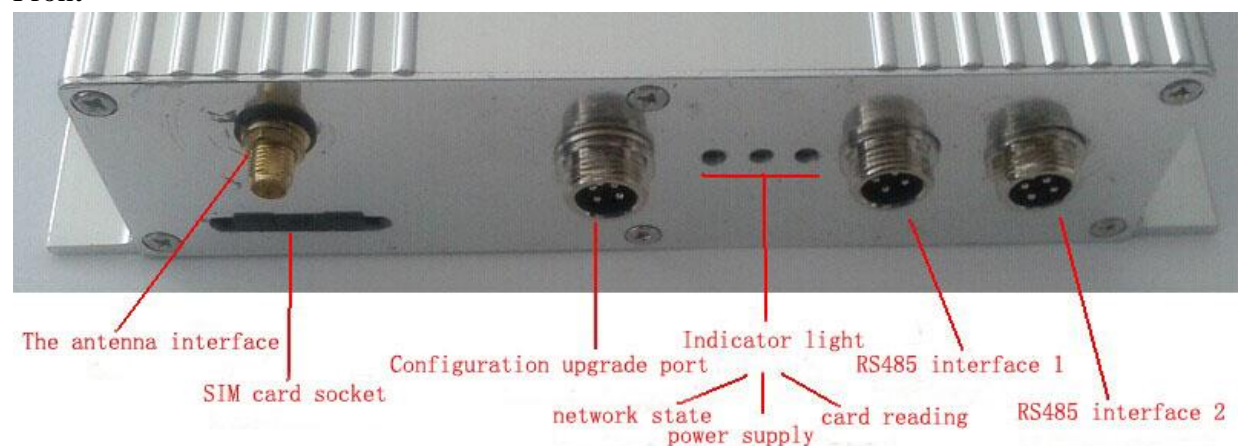
Modulation Mode: GMSK

6. Working environment

- 1) Anti-interference and lightning protection design, meeting the needs of the industrial environment
- 2) Service temperature: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- 3) Storage Temperature: $-60^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- 4) Anti-electromagnetic interference: 10V/m 0.1-1000MHz AM

7、Wire Installation

Front



Back



8、Application Fields

Trans parking system
Vehicles no-parking management system
Home school access system School access system
Tunnel personnel management system installation
Underground personnel positioning management system
Forces classified asset management system
Automatic recognition system of motor vehicle electronic license plate
Automatic management syatem of bus benchmarking
Automatic examination system of Entry - Exit of enterprise or business unit personnel
Warehouse management of Entry - Exit
Warehouse electrical equipment inspection
Sea transport、water transport、highway and railway container transport
Other remote automatic identification system

Note: The product will be 20cm from people when normal operating.

Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.