

**Aristel** AN1001

**GSM FIXED WIRELESS**

**TERMINAL**

**USER MANUAL**

V 4.3

**This manual contains important information.**

**Please read before using the equipment.**

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# 1 Introduction

Congratulations on choosing an Aristel GSM Fixed Wireless Terminal.



Your Aristel Fixed Wireless Terminal ( FWT ) is designed to work on GSM networks . It can be connected to single line telephones ( SLT ) or PABX systems using analogue trunks.

This device delivers dial tone and ring current in the same manner as a fixed line telephone service .

This product is particularly suitable for most small to medium sized businesses.

It can replace one or several PSTN lines when connected to a PBX, thus saving line rental charges.

Using intra company mobile plans, this FWT can provide:

- low or no cost calls between office phones and mobile phones.
- Link two or more sites.

## 2 Warning

Please observe the following:

1. Avoid using this product in petrol stations, bunkers and places of chemical storage.
2. Avoid using this device in areas where wireless transmission equipment is restricted (such as hospitals, health care facilities and on board aircraft).
3. Use only 2 wire line cords ( supplied ) when connecting to SLTs and PABX systems.

4. The voice quality may vary between networks.
5. As of March 2009, the following Australian networks will work with this device  
Telstra GSM 900/1800, Optus 900/1800, Vodafone 900/1800  
Telstra Next G SIM cards will default to GSM 900/1800 Telstra network. Installers should check GSM site reception using a GSM handset or a 3G handset set to GSM only. This is important for country areas. Hutchison '3' will not work with this FWT. It is a 3G only network.
6. The equipment should be installed and maintained by a qualified personal.
7. Position the antenna in a location where signal strength is not impaired.

## 3 Function Description

The AN1001 FWT has the following:

1. Standard RJ12 phone socket interface.
2. Caller ID with DTMF.
3. This FWT has an internal rechargeable battery in case of power outage.
4. Supports traditional PBX access and reversal on idle.
5. Real time displaying of wireless network signal strength.
6. Table or wall mountable.

# 4 Operation Guide

## 4.1 Power On

Turn on the power switch. The equipment will initialize itself and search the network. This will take about 20 seconds. During this process, the status indicator LED keeps flashing. After this process is finished, the equipment is ready, and the signal indicator LED will be lit. Dial tone can be heard if off-hook. If the equipment is locked (or SIM locked or network locked), the equipment checks itself. And if the check inspection has failed, the equipment will send out error tone for 2 minutes and release the connection.

## 4.2 Panel indicator LED status



Status Indicator

Signal Strength LED (with a red light) from the left to the right, Illumination of more LED's means better signal strength.

Network (with a blue light): Indicates if the device is connected to network or not.

Blue light indicates if the device is connected to a network.

Constant glow or flashing 3 blinks per second indicates the device is searching for a network. This will occur when power is turned on or when an inactive SIM is used.

One flash per second indicates that the device is in service and ready for use.

State Indicator (with a red or green light) Represent different status such as in conversation, standby, ringing, etc by different flicker.

3 green and 1 red flash indicates no SIM.

Constant red glow indicates incoming or outgoing call in progress.

## 4.3 Make a call

When the correct LEDs are on, and you hear dial tone after you pick up the handset or connect to the PBX trunk, then you can make a call.

## 4.4 Receive a call

On an incoming call, ring current is sent to the SLT or PBX device with Australian ring cadence. The SLT handset or PBX extension will respond in the same manner as if the call was from a fixed line.

## 4.5 Redial

You can redial the last number called using the [ # ] key as a speed dial.

If no more digits are dialed within 7 seconds of pressing the [ # ] key , then the last number dialed will be re dialed. This function should not be used when connected for PBX working.

## 5 Configuration and installation

**1). Packing List:** Main unit, Antenna , User Manual, Power adaptor

**2). Installation Steps:**

The equipment uses the GSM network and requires an active SIM card which has no pin number registered.

- ① Install the Fixed Wireless Terminal in a suitable place.
- ② Turn off the main power switch at the back of the unit.
- ③ Install an active SIM card.
  - a) Open the SIM card cover underneath the unit.
  - b) Lift the SIM card clamp to insert the SIM card contact side down.
  - c) Close the SIM card clamp and secure it. Replace the SIM card cover
- ④ Connect the antenna into the ‘ant’ socket.
- ⑤ Using the 2 wire line cord provided, connect the SLT or cordless phone.

For PBX working, connect to analogue trunk. If required, ensure that the telephone system’s LCR or ARS has been programmed before making calls.

Turn the power switch on..

## 6. Setting instructions for AN1001

### 1. To turn **OFF** CLI on outgoing calls:

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0528\*1#. "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 2. To turn **ON** CLI on outgoing calls:

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0528\*0#. "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 3. To adjust receiving level:

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0100\*X#, X stands for receiving level ranging from 0-7 with a factory default value of 4. "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 4. To adjust sending level:

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0111\*X#, X stands for sending level ranging from 0-3 with a factory default value of 2. "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 5. To enable ROI (Reversal on idle to work):

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0516\*1#, a "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 6. To disable ROI (Reversal on idle to work):

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0516\*0#, a "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 7. To enable ROA (Reversal on answer):

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0516\*1#, a "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 8. To disable ROA (Reversal on answer):

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0516\*0#, a "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 9. To enable comfort tone

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0518\*1#, a "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

### 10. To disable comfort tone

Off hook, dial \*\*\*99\*810529#, after a "DI", dial 0518\*0#, a "DO" is heard to indicate a successful setting, while "DO Do" to indicate failure.

#### **Note:**

If the CLI is turned ON by the network or carrier, you can't turn it OFF by applying the stipulated settings for outgoing calls.

But if the CLI is turned OFF by the carrier then you have an option of turning it ON or OFF for outgoing calls.

## 7. Technical Data

- 1) Antenna interface standard: GSM900/1800 MHz .
- 2) SIM card: Support 3V/1.8 V (adaptive) G-SIM card
- 3) Phone interface: DTMF line interface (RJ-12 phone interface)
- 4) Table or wall mountable
- 5) Antenna interface: antenna gain > 3.5 DB  
Sensitivity < -104 DBM  
Antenna transmission power: < 3 W  
Impedance: 50 ohm
- 6) Working environment:  
Operation temperature: 0 °C ~ 50 °C  
Operation humidity: 45% ~ 95% Non condensing condition
- 7) Power requirement : 12 volt DC – 1 amp.

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