

WT-1018C1

GSM FIXED WIRELESS TERMINAL

User Manual



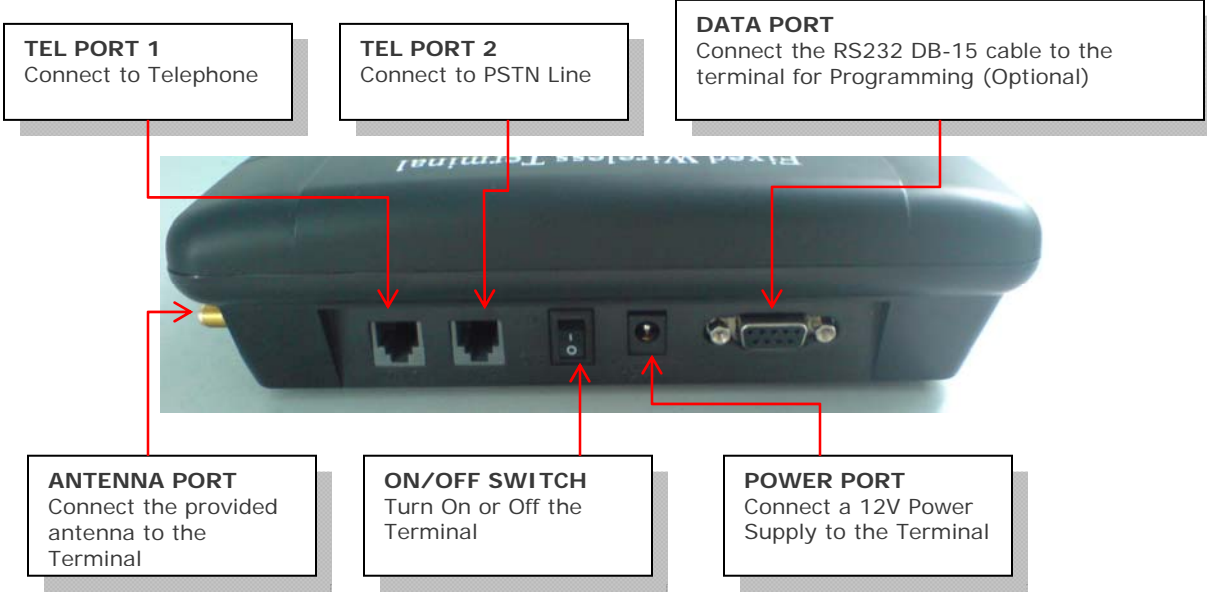
WITURA

WITURA CORPORATION SDN BHD

Sketch of the Fixed Wireless Terminal



Installation & Wiring



Please check the following packing list:

<u>Name</u>	<u>Quantity</u>	<u>Unit</u>
WT-1018C1 Main Unit	1	set
Telephone line	1	set
Power adapter	1	set
5m GSM terminal antenna	1	set
User's Manual	1	set

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1. Main Features of WT-1018C1

- ❖ Adopt advanced microprocessor controlling circuit, run steadily. Capability is ascendant
- ❖ Adopt high gains antenna. Signal is strong
- ❖ Be applicable for GSM900MHz/DCS1800MHz/PCS 1900MHz
- ❖ Call or called function can be set up flexibly
- ❖ The functions of locking terminal and locking SIM card can be set up conveniently.
- ❖ Function of displaying incoming calls.
- ❖ Provide accurate anti-polarity signal for billing equipment to charge.

2. Caution

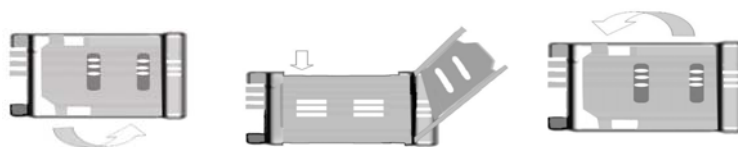
- ❖ This terminal should not be used at garage, oil storage and chemical plant or near to flammable or explosive substance.
- ❖ This terminal should be avoided in the hospital. It will interfere medical electronic equipments such as pacemaker and audiphones. This terminal could only be used indoors.
- ❖ If it is found that the terminal is not successful in login onto the network, please check whether the SIM card and antenna are installed well or not.
- ❖ It is forbidden to touch the antenna when the connected telephone is being used. (Making calls or receiving calls), otherwise the terminal will be damaged. This kind of damage is beyond the range of warranty.
- ❖ When the terminal is using, it should be placed where the signal of network is strong enough. In order to ensure the quality of call voice, the terminal should be far from other electronic equipment.
- ❖ The terminal does not identify SIM card of 5V and 1.8V, only identify 3V SIM card.
- ❖ Don't disassemble the terminal by yourself. If there is any problem, please contract the authorized personnel.
- ❖ Working voltage of wireless terminal: 12V.

3. Storage

- ❖ Terminal that is packed or not should piled up no more than 10 layers.
- ❖ The terminal should be saved in the ventilative and dry place.

- ❖ Don't knock terminal to avoid breaking the case.
- ❖ Don't use chemic impregnant to clean terminal, but use dry soft cloth to make it clean.

4. Installing the SIM Card



Proceed as follows:

1. Slide back the SIM door and lift it up
2. Slide the SIM card into the SIM door making sure that the clipped corner of the SIM card lines up with the clipped corner of the SIM holder
3. Close the SIM door
4. Slide the SIM door to lock the SIM card in place

Note: To use the terminal without any locking SIM or locking terminal, please be sure the initial 4 digit PIN code of SIM card is disabled. This can be done by placing it in an unlocked Mobile phone and first checking if the SIM requested any PIN code. If this is the case the PIN code can be disabled using the security settings on the phone. To enable the function of lock SIM and lock terminal on the terminal, the PIN code of SIM card and the terminal must be set and enabled.

5. Setting up the Terminal

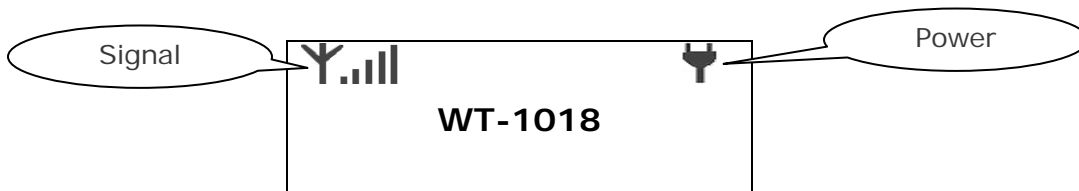
Installation Condition

Require 220v AC power. GSM signal can cover the area where the terminal is placed. Signal quality affects voice quality direct.

The installation for connecting to ordinary telephone direct

1. Install the SIM card proceeding as "Installing the SIM Card" on the above.
2. Connect one end of the telephone line to "Telephone port" and the other ends connect to a telephone.
3. Connect PSTN Line to "Line Port".

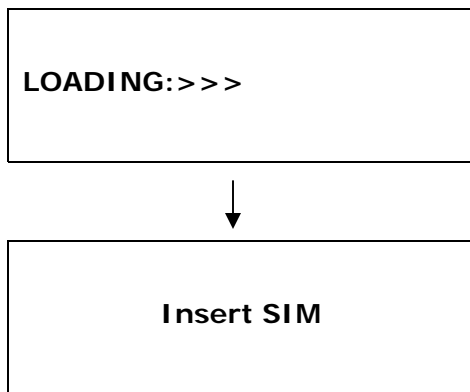
4. Install the antenna and power supply well. The distance between telephone and terminal is 1.5m at least.
5. Connect one end of the power adapter to "Power port" and another end connects to 220v AC power.
6. Turn on the terminal.
7. When the terminal is ready to use, it will display as below



Draw your attentions: Because there are many types of ordinary telephone and their electric parameters are different. In order to avoid mutual disturbance between telephone and terminal and affects voice quality. The distance between telephone and terminal must be beyond 2m.

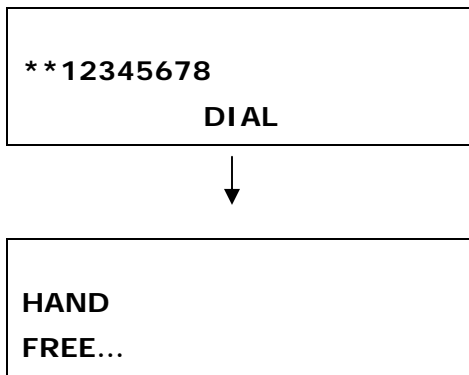
Setup the function of locking SIM card and locking terminal

To enable this function, the PIN code of both SIM card and the terminal must be setup and enabled. To setup and enable the PIN code of the SIM card, it can be done by using the security settings on any mobile phone or on WT-1018C1 terminal. To setup the PIN code for the terminal, you can first turn on the terminal without installing the SIM card. When turned on, it will display as below

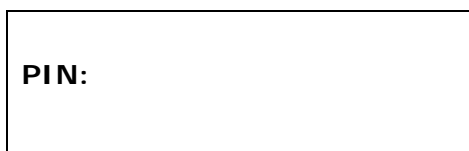


Now you can lift the handset or press the "hand-free" key of the connected phone.

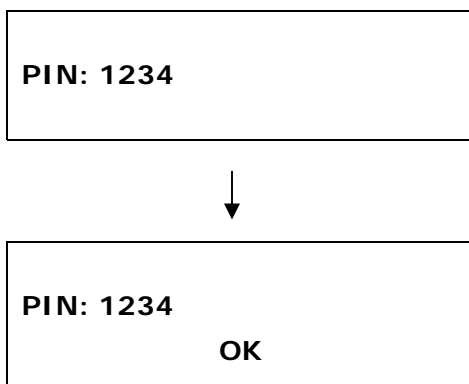
Input the password to enter programming mode by pressing ****12345678#**. If password entered correctly, it will display as below.



Continue press ***8*** to setup a PIN

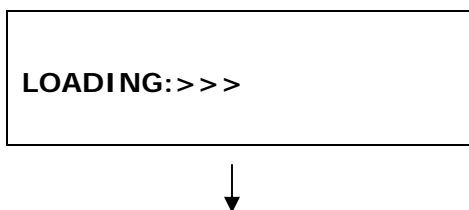


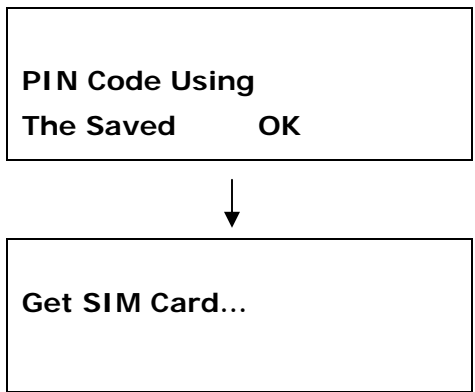
Enter a PIN code that match with the PIN code of the SIM card and confirm with **#**



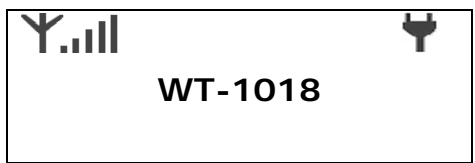
Now the PIN code of the terminal has setup successfully.
Quit the programming mode by simply hook-on the phone or press the **"hand-free"**

Turn off the terminal and install the SIM card. Turn on the terminal again. This time the terminal will check and match the PIN code of the SIM card as shown below.

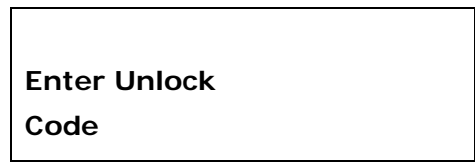




If the PIN code is matched, then it will proceed to standby mode

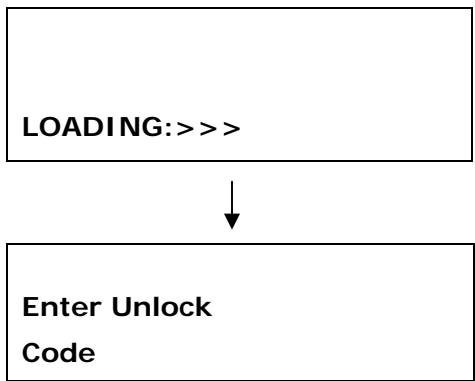


Note: If the PIN code of the SIM card is incorrect and cannot match with the PIN code of the terminal, it will display as below



Setup PIN code for Terminal with a PIN code enabled SIM card

If the PIN code of the terminal hasn't been setup, you can also program the PIN code by first installing the SIM card with PIN code enabled and turn on the terminal. When turned on, it will display as below



You can lift the handset or press the **"hand-free"** key. It will display as below

PIN:

Enter a PIN code that match with the PIN code of the SIM card and confirm with #

PIN: 1234



IN CHECK PIN...

If the entered PIN code is matched, it will display as the following...

**IN CHECK PIN...
OK**



**Want To Save The
Correct PIN:**

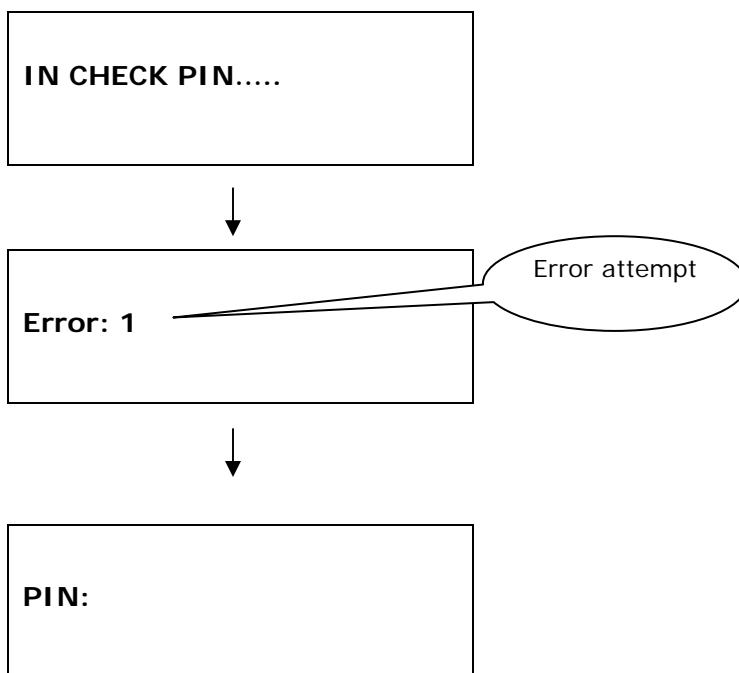
Simply press **1#** to save the PIN code into the terminal

**Want To Save The
Correct PIN: 1 OK**

The terminal will then proceed to standby mode. **Warning!** Now the terminal is locked and only recognizes the installed SIM card.

PIN Code Incorrect Procedure

If the entered PIN code is incorrect, it will display as the following...



Note: There are only 3 attempts for entering the wrong PIN code. After the third attempt, it will display as below



You will have to check with the network operator for PUK to unlock the SIM card.

6. The Installation for connecting to register cost equipment

If users demand register cost during calls, register cost equipment can be connected between terminal and ordinary telephone. Register cost equipment registers cost according to anti-polarity signal that is provided by terminal.

7. Turn on and Turn off Wireless Terminal

Turn on: Connect the input end of power adapter to power socket and the output end to the port of "DC12V" turn on terminal. About 15 – 45 seconds later (subject to local wireless network), the terminal will logon successfully.

Turn off: Turn the switch to the **OFF** side and disconnect power adapter to turn off the terminal

8. Making Calls and Answering Incoming Calls

8.1 Making Calls

1. Lift the handset or press "**hand-free**" key, you will hear dialing tone, then you can dial the telephone numbers you want to call.
2. Dialing: dial the telephone numbers you want to call
3. On completion of dialed digits, you can press "#" to transmit telephone numbers. If you don't dial any key for continual 6 seconds during the dialing, the terminal transmits the dialed telephone numbers automatically.
4. If there is PSTN line input, the dialing numbers will automatically go through PSTN line. If the user wants the dialed number to go through GSM then the user must press "*" before the destination numbers.
5. If the user dial a number start with "1", "2", "3", "4", "5", "6", "7", "8", "9" the dialing numbers will automatically go through PSTN. When user dial a National or International Call number start with "0" and "00", the dialing numbers will automatically go through GSM. IP or Gateway Number will be added in front of destination number automatically when dialing International Call "00". If there is no IP or Gateway Number, it will go through GSM as normal.
6. When it is necessary to register cost, the terminal sends out anti-polarity signal (the signal is used to register cost by register cost equipment). During a call, dial digital key or "*" or "#" to output DTMF.
7. If the calling party or called party hangs up, the terminal stops sending out anti-polarity signal.
8. If users dial barred numbers, telephone will give out the sound of three-time toot to ask the user to hang up.

8.2 Answering Incoming Calls

When some calls are coming in, the telephone rings and the terminal will displays the incoming telephone numbers on the screen. Now users can lift the handset or press "**hand-free**" to answer the call.

9. Programming Instructions

9.1 Introduction

The WT-1018C1 can be programmed manually by a connected ordinary telephone.



Note: Before commencing programming it is advisable to read the below programming setting instructions thoroughly.

9.2 Programming Setting Instructions

Steps:

A. Enter Programming Mode

Pick up the handset or press "**hand-free**" on the connected telephone, input ****12345678#**. If heard "du~" a short dialing tone, means the Password has entered correctly, and then it will continue to programming setting mode. User is able to do programming at this state. If there is no tone and error appears on the screen, means the Password entered is not correct. And it will not go into programming setting mode. User can hook-on and pick up phone again to enter the Password.

B. Getting Started with Programming Code

After enter the Programming Code, if there is no tone and error appears on the screen, it means wrong programming code. If heard “du~” a short dialing tone, it means the successful set up for that programming code.

During the setting for the programming code, you do not need to hook-on the Phone. After ONE successful setting, you can proceed with the next programming setting.

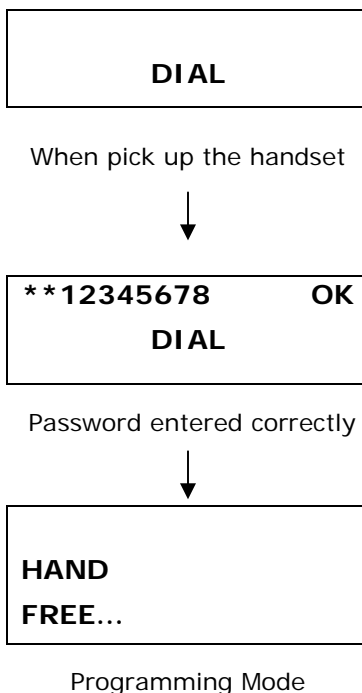
C. To Quit from the Programming Mode

Hook-on the phone or press “**hand free**” to quit from the setting.

Step 1: Enter Programming Mode

Pick up the handset or press hands free, press ****12345678#** to enter programming mode. If the password has entered correctly, you should see “**HAND FREE...**” displayed on WT-1018C1 screen.

Now you may proceed with programming settings.



Step 2: Changing the Programming Access Password

To change the 8 digits programming access password, you can press *0* to proceed.

NEW PASSWORD:



NEW PASSWORD:
87654321

Input new password and ended with #



NEW PASSWORD:
87654321 OK

Step 3: Setting the Delay Time of Sending the Destination Number

To set the delay time of sending the destination number, you can press *5* to proceed.

Dttransmit:



Dttransmit:
03

Example: To set the delay time for 3 seconds
Simply input 03 and ended with #



Dttransmit:
03 OK

Note: The delay time value range from 00 –59 seconds (**Default:** 20 seconds)

Step 4: Setting the Function of switching the dialed number to GSM

To switch the dialing number *, 0 or 00 to GSM, you can press *7* to proceed.

*: 0: 00:



*: 1 0: 0 00: 0

Example: To activate * to dial through GSM when pressed
Simply input 100#



*: 1 0: 0 00: 0
OK

Step 5: Setting the Delay Time of Sending the Destination Number after Dialing the IP or Gateway number

To set the delay time of sending the destination number after dialing the IP or Gateway number, you can press *6* to proceed.

IP Delay Time:



IP Delay Time:
06

Example: To set the delay time for 6 seconds
Simply input 06 and ended with #



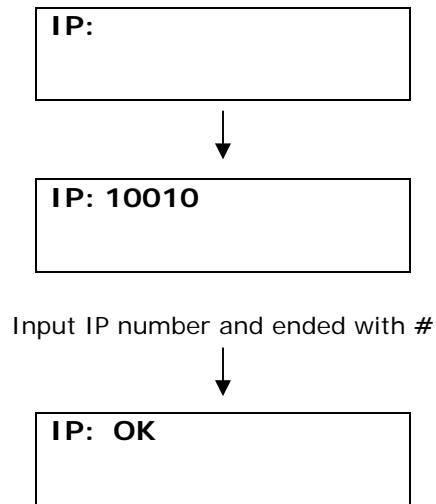
IP Delay Time:
06 OK

Note: The delay time value range from 00 – 59 seconds (**Default:** 20 seconds)

Step 6: Adding/Deleting IP or Gateway Number

Adding IP or Gateway Number

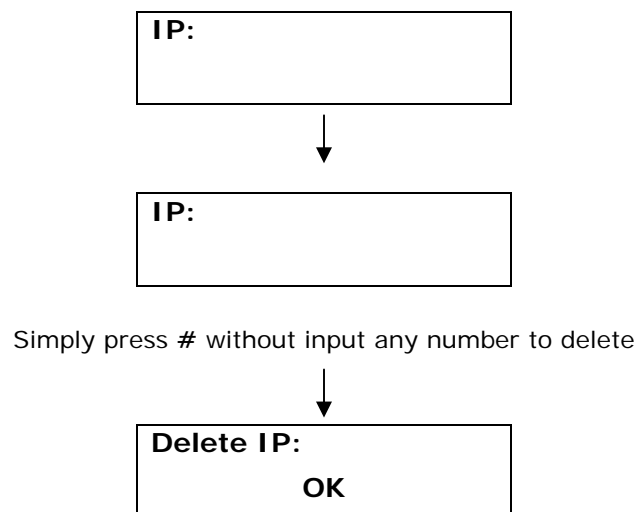
The terminal can automatically add the IP or Gateway Number in front of the Destination Number when making a call. To setup IP number, you can press *1* to proceed.



Note: IP number will be added automatically in front of a destination number that begins with 00

Deleting IP or Gateway Number

To delete the programmed IP or Gateway number, you can press *1* to proceed.



Step 7: Setting the PIN Code for the WT-1018C1 Terminal (Optional)

To setup a PIN code, you can press ***8*** to proceed.

PIN:



PIN: 1234

Example: To setup the PIN code as 1234
Simply press **1234#**



PIN: 1234
OK

Note: Once PIN code is programmed, the terminal will only recognize the SIM Card with that PIN code.

Step 8: Clear the PIN Code of the WT-1018C1 Terminal (Optional)

To clear the PIN code of the WT-1018C1 Terminal, you can press ***10*** to proceed.

Clear PIN?



Clear PIN?
1

To clear PIN number simply press **1#**
To cancel and turn back simply press **0#**

Clear PIN?
1 OK

Step 9: Enable/Disable SIM PIN Protection (Optional)

Enable SIM PIN Protection

To enable PIN protection of the SIM card, you can press ***14*** to proceed.

PIN Protected
ON PIN:



PIN Protected
ON PIN: 1234

To turn on SIM PIN protection, simply enter the default PIN **1234#**



IN CHECK PIN....
OK

Disable SIM PIN Protection

To disable PIN protection of the SIM card, you can press ***15*** to proceed.

PIN Protected
OFF PIN:



PIN Protected
OFF PIN: 1234

To turn off SIM PIN protection, simply enter the default PIN **1234#**



IN CHECK PIN....
OK

Step 10: Allow or Bar Incoming Calls

To allow or bar incoming calls, you can press ***2*** to proceed.

Bar All Incoming
Call?



Bar All Incoming
Call? 1

To bar incoming call simply press **1#**
To allow incoming call simply press **0#**



Bar All Incoming
Call? 1 OK

Default Value: 0

Step 11: Allow or Bar National Calls

To allow or bar National calls, you can press ***3*** to proceed.

Bar Zero?



Bar Zero?
1

To bar national calls simply press **1#**
To allow national calls simply press **0#**

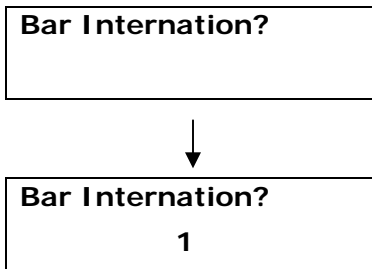


Bar Zero?
1 OK

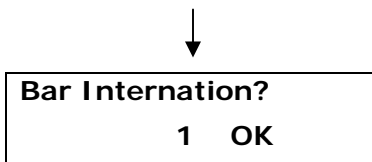
Default Value: 0

Step 12: Allow or Bar International Calls

To allow or bar National calls, you can press ***4*** to proceed.



To bar international calls simply press **1#**
To allow international calls simply press **0#**



Default Value: 0

Miscellaneous Settings

Inquire the Programmed PIN Code of the WT-1018 Terminal

To check the programmed PIN code, you can press ***9*** to proceed.

PIN code is:
1234

The PIN code will be displayed on screen
Press # to turn back

Adjusting the Speaker and Microphone volume of the WT-1018 Terminal

To adjust the speaker and microphone volume, you can press ***11*** to proceed.

SPK: MIC:



Example: To set the speaker volume and microphone volume to 3
Simply input 33 and ended with #



SPK: 3 MIC: 3
OK

Note: The speaker volume values range from 1 – 9 (**Default:** 9)
The microphone volume values range from 1 – 9 (**Default:** 1)

Reset the WT-1018 Terminal

To reset the WT-1018 terminal, you can press ***17*** to proceed.

**Reset The
Machine?**



**Reset The
Machine? 1**

To confirm reset simply press **1#**
To cancel and turn back simply press **0#**



**Reset The
Machine? 1 OK**

Checking the Hardware and Software Version of WT-1018C1

To check the hardware and software version of WT-1018C1, you can press ***16*** to proceed.

**HW: 1.0ver SW: 1.0
ver MW: 1.5ver**

The Hardware and Software Version will be displayed on screen
Press **#** to turn back

10. Technical Specifications

1. Working condition
Environment temperature: 0~ +50°C
Relative humidity: 10%~95%
Air pressure: 86~106kpa
Environment yawp: ≤60dB (A)
2. Working frequency: GSM900MHz/GSM1800MHz
3. Stability of frequency: better than 2.5PPM
4. Signal sensitivity: -103dBm
5. Transmit power: <2w
6. Power: 220v±15% AC
7. The max distance between terminal and telephone: 100M

11. Troubleshooting

Phenomena	Trouble	Trouble Shooting
Signal indicator isn't lit	Failed in login onto GSM network	<ol style="list-style-type: none"> 1. The signal is too weak Please move the terminal to the place where signal is stronger. 2. Check whether antenna is connected well. 3. SIM card is locked. Please contact the service provider.
Signal indicator flashes fast	Signal is too weak	<ol style="list-style-type: none"> 1. Check whether antenna is connected well. 2. The signal is too weak Move the terminal or antenna to the place where signal is strong.
Power indicator isn't lit	Having not connect to power supply or there is some trouble with power adapter	<ol style="list-style-type: none"> 1. Check whether the adapter is connected well. 2. There is some trouble with the power adapter Please contact the provider of the terminal.
Only free numbers can be called out	The residual money on SIM card is too less	Add money to the SIM card subscriber
Can't hear sound during calls	The malfunction on the telephone	Change the connected telephone with a good one
Poor voice quality during calls or there is echo during calls	The voice volume is too high or the signal of network is too weak.	<ol style="list-style-type: none"> 1. Adjust voice volume to be lower. 2. The local signal is too weak. Move the terminal to the place where signal is stronger. 3. Make the antenna is longer from the telephone 4. The voice quality of the connected telephone isn't good. Change the connected telephone 5. Trouble on the GSM network.
No ringing sound	The malfunction on the telephone	<ol style="list-style-type: none"> 1. Malfunction on the connected telephone 2. Malfunction on terminal. Please contact the provider of the terminal.
Incoming calls can't be answered	The connected telephone does not match the terminal or forbidding answering incoming calls is set	<ol style="list-style-type: none"> 1. Change the connected telephone with a suitable one. 2. Forbidding answer incoming calls is set up, please contact the service provider.

Warranty

Witura Corporation Sdn Bhd guarantees all WT-1018 GSM Fixed Wireless Terminal against defective parts and workmanship. Witura Corporation Sdn Bhd shall, at its option, repair or replace the defective equipment upon the return of such equipment to any Witura branch. This warranty applies ONLY to defects in components and workman-ship and NOT to damage due to causes beyond the control of Witura, such as incorrect voltage, lightning damage, mechanical shock, water damage, fire damage, or damage arising out of abuse and improper application of the equipment.

Note: Wherever possible, return only the PCB to Witura Service Centres.
DO NOT return the enclosure.

The WT-1018 is a product of
Witura Corporation Sdn Bhd
And is manufactured by
Shenzhen Witura Telecommunications Co., Ltd.

WARNING

For safety reasons, only connect equipment with a telecommunications compliance label. This includes customer equipment previously labelled permitted or certified.