PORTABLE GPS TRACKERS

Thank you for purchasing your Mongoose GPS tracker.
Make sure you read this manual carefully before using this product.
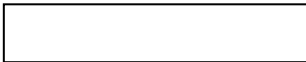

PT800
Pet tracker

PT860
Personal belt clip tracker

Included;

- 1 x GPS tracker (packaging carton states which is included)

- A download APP for your mobile phone - Android or IOS.

- A website link on your computer

- 240v~5v battery charger/power adaptor with connection lead

- A size adjustable dog collar (PT800)

- **Requires a Vodafone 2G SIM card**

IMPORTANT
Record your IMEI number here
(Shown on the tracker label)

Mongoose (New Zealand) Limited
www.mongoose.co.nz

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PLEASE READ THIS MANUAL

Thank you for choosing Mongoose as your GPS tracking provider.
The tracker, the mobile APP and website are so easy to use.
Please familiarize yourself with how it works and what the features can do for you.
If you have any questions, we offer telephone assistance during normal office hours Monday to Friday.

0800 80 50 80 or 09 443 3128

How GPS tracking works;
GPS satellites are used to find the trackers location – anywhere in the world.
The tracker uses a <u>Vodafone 2G GSM mobile SIM card</u> to send its location data to the website and mobile APP. The tracker must be paired to your mobile phone.
The tracker automatically sends its location to the website using inexpensive data.
The website saves the data for up to 6 months at a time.
The mobile APP is used to display the information stored on the website and to communicate directly with the tracker.
The tracker, APP and website work seamlessly together with virtually no delay in operation.

Your GSM SIM card must have the ability and credit, for voice, text messages and data.

QUICK SET-UP GUIDE

1. Charge the battery - approx' 8 hours. Red LED shows tracker is charging.

2. Insert a Vodafone 2G GSM SIM card (<u>Do not insert with the tracker turned on or power lead connected).</u>

3. The PT800 turns on when the SIM card is inserted. Press power button on PT860 to turn on.

4. Whilst it's charging, you can set it up to start tracking – see page 4.

5. Green & blue LEDs will start to flash when GPS and GSM signals have been located – usually 40~60 seconds. Best outdoors or near a window.

6. The tracker must face the sky. With dogs, it must be on the back of its neck, not under its chin.

7. From your mobile phone, send the following 5 text messages to get your tracker working.

TRACKER OPERATION

SIM CARD INSTALLATION

Make sure that the SIM card is operating by testing in a mobile phone before inserting into the tracker.
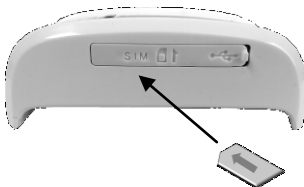
Do not insert SIM card with power charger connected – you could damage the SIM card.

Do not hide your mobile phones identity.

Keep SIM credit up to date – make a note of the top-up date.

PT800

- Carefully lift up the SIM card/charger rubber cover – <u>DO NOT REMOVE THE COVER.</u>
- Insert the SIM card correctly, as shown. It will click into place. The tracker will turn on.
- Fully replace the rubber cover to ensure water seal.
- This tracker is only water resistant to IP65 <u>with the cover in place</u> – do not submerge.

PT860

- With the screwdriver provided, remove the back cover.
- Insert the SIM card correctly, as shown. Press power button to turn on.
- Fully replace the cover – ensure screws have their sealing washers.
- PT860 is water resistant to IPX-6 – do not submerge

Insert SIM until it clicks (PT860)

1

PAIR YOUR MOBILE PHONE TO THE TRACKER

Send this text message from your mobile phone to trackers mobile number;

admin123456 xxxxxxxxxx

⇧
there is a space here

(123456 is default password - xxxxxxxxx is your phones mobile number)

Tracker replies: **admin okay**

2

SET THE CURRENT TIME

Send this text message **timezone123456 12**   ('12' hours ahead of GMT)

⇧   ('13' when NZ daylight saving starts)

there is a space here

Tracker replies: **time ok**

3

SET UPLOAD FREQUENCY – How Often To Report & Record Location

Send this text message **upload123456 30** (every 30 seconds when moving)

⇧

there is a space here

Tracker replies: **upload ok**

4

START SENDING LOCATION DATA

Send this text message   **gprs123456**

Tracker replies: **gprs ok**   (Blue LED flashes)

5

DOWNLOAD THE MOBILE APP

Download the Android or IOS APP :- **TKSTAR GPS**

Server = **www.zg666gps.com**	
Single tracker	**Multiple trackers**
Select **'Log in by IMEI'** at bottom right of screen	Select **'Log in by username'** at bottom left of screen
Enter IMEI number (ID printed on the tracker & carton)	**Enter Username** (your choice –call Mongoose to set-up)
Enter Password = 123456	**Enter Password** (your choice – call Mongoose to set-up)

ON-LINE GPS TRACKING

Once programmed, the tracker automatically sends its location to the website via the GSM mobile data network. The mobile APP receives its information from the website.

Your Vodafone 2G GSM SIM card must therefore have the ability, and credit, for voice, text and data.

HOW TO TRACK – WHERE IS IT NOW ?

SMARTPHONE APP

Open the APP on your mobile phone. If in the blue band at the top it says 'Not enabled', it means the tracker hasn't been programmed correctly or the SIM card is not transmitting data.

Click on 'real time' to show current location.

The blue dot is your phone – the green triangle is the tracker.

WEBSITE

Log onto to the website. Click on 'monitoring'. A map will be displayed with the location.

TEXT REQUEST

Send this text:- **g123456**

The tracker will now reply. Tap the text message and your phones maps open to show the location.

PHONE CALL

Make a phone call to the tracker (only from the paired mobile phone).

Cellular secretary will answer, hang up immediately.

The tracker will now send you a text message.

Tap the message and your phones own maps open to show the location.

APP & WEBSITE

The APP and website offer a wide range of features;

- Real-time tracking

- Historical movement

- Geo-fence settings

- Device information

The APP and website are linked so any changes are reflected by the other.

Please note: The APP and website are owned & operated by an international 3rd party.

Mongoose has no input into the design, features or operation.

Purchasers of Mongoose GPS trackers have free usage under current access terms.

Certain features and functions of the APP and website may be only be applicable to the model purchased.

This manual details the functions applicable to your model. The APP and website are continually being updated so features and functions may alter.

BATTERY CHARGING – FOR SAFETY, DO NOT LEAVE BATTERY CHARGING UNATTENDED

Before use, please fully charge the battery – approximately 8 hours.

There are two methods of charging the trackers battery;

Mains with USB lead or USB socket in a motor vehicle (faster) or computer (slower).

When fully charged, the battery should last approximately 7 days in sleep mode.

In normal use with location reporting, battery life is approximately 3 days.

Low battery alert: The tracker will send a text alert to your phone when battery power drops to 40%..

TURNING ON - outdoors or very near a window if indoors to get satellite reception

- PT860 - Press and hold the button until LED's light.
- PT800 turns on when SIM card is inserted.
- Within 60 seconds, the unit will lock onto the GSM and GPS signals and start to flash.
  (Turning on indoors can result in no GPS reception – blue LED stays on)

Red LED — External power supply

Unlit	Charged
Lit	Charging

Green LED — Mobile GPRS signal state

Unlit	GSM off or in sleep mode
Lit solid	Searching
Flashing once every 3 sec's	GSM connected

Blue LED – GPS signal state

Unlit	GPS off or in sleep mode
Lit solid	Searching
Flashing once every 3 sec's	GPS satellites located

TURNING OFF – Press the button for a couple of seconds to turn off (PT860)

PT800 – either remove the SIM card, or send the sleep command to prolong battery life.

COMMANDS EXPLAINED

TIME ZONE

So that the tracker can report accurate time, the time zone must be set. Time is set by how many hours you are ahead of London's GMT (Greenwich Mean Time). Allow for daylight saving.

GPRS (data)

GPRS (Global Packet Radio System) is the method of sending data over the mobile phone network. Data is sent from the tracker to the website. The mobile APP gets its information from the website. The trackers 2G GSM SIM card must be capable of text and data.

GPRS (data) transmission can be turned on or off if you wish to control SIM card expenditure. When 'off', the APP and website are not updated with locations.

PASSWORD The default password is 123456. This may be changed to any 6 digit number. If you change the password and later forget it, the tracker will need to be re-set to factory defaults and then be re-programmed.

SOS   To summon help press the SOS button on the tracker for a minimum of 5 seconds. The paired user and those programmed to receive SOS alerts will receive a text alert.

GEO-FENCE – restricting range of travel

You can set an area of permitted travel by setting an invisible boundary - a 'geo-fence'.

This is set from either the APP or the website. A geo-fence is set with a permitted radius of travel. Minimum 100 metres to a maximum of 5,000 metres. Multiple geo-fences can be set.

If the tracker moves outside the defined area, it will send a text alert to the paired mobile phone.

SLEEP & SLEEP BY SHOCK MODES (LED's do not flash to preserve battery life)

If the tracker detects no movement for 10 minutes, it will go to sleep to preserve battery power. It will automatically wake up if it receives a shock (sensitivity adjustable) or it receives a text message.

The 'Sleep' & 'Sleep by shock' commands force the tracker to sleep rather than wait 10 minutes.

Both modes can be cancelled – see command chart

SHOCK ALERT TYPES See command chart.

You can select what type of alert you require from:- no alert – text message – phone call or both.

SPEED ALERT

A speed limit can be set between 50~120kph. Speeding over the set speed limit will send a text alert to your mobile phone.

MOVE ALERT

When the tracker has been in a stationary position for more than 3 minutes, a 'move' command can be sent setting a permitted radius of travel from where the tracker is located. This can be set between 100~5000m. Movement outside this radius will send a text alert to your mobile phone.

MONITOR MODE – covert listening

The GPS tracker has a built in microphone.

Monitor mode allows you to make a telephone call to the tracker and listen to what is happening around it.

The tracker itself makes no noise and no vibration when you call it, so it is covert.

Sound quality and volume will depend on where the tracker is situated.

When in 'monitor mode', GPS tracking is not possible.

TRACKER MODE

This command cancels 'monitor mode' and returns the unit to GPS tracking.

Cautions:

1. Keep the unit dry to extend product life - Always insert the rubber cover over SIM slot and charging port

2. Clean with dry cloth. Do not clean with chemicals or detergent, etc.

3. Do not paint the unit or apply metal foil stickers.

4. Do not disassemble, tamper or attempt any repair.

5. Please use the battery and charger provided. Using other chargers will void warranties.

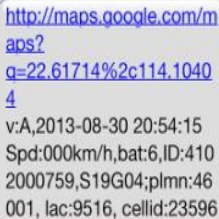6. Tampering, abuse and misuse with the unit will void any warranties.

NOTES: Use of this product or features may infringe the rights or invade the privacy of others.

The use of mobile devices, such as this GPS tracker, may be restricted in certain locations. It is your responsibility to ensure correct and permitted usage. We are not responsible for the non-operation of this product should GPS, GSM or GPRS signals not be available or be able to be received.

COMMAND CHART

Instruction	Text to send to tracker	Reply
Cell phone pairing	admin123456 *xxxxxxxx* *(xxxxxxxx = your mobile number)*	admin ok
Cancel pairing	noadmin123456 *xxxxxxxx*	noadmin ok
Add SOS numbers (max' 2)	SOS,XXXXXXXXX,SOS,YYYYYYYYY	SOS ! S1: XXXXXXX SOS ! S2: YYYYYYY
Set time zone	timezone123456 12 (12 hours ahead of GMT)	time ok
Request location	g123456	Google link
GPRS (data) mode	gprs123456 (sends data to website & APP)	gprs ok
	nogprs123456 (sends no data)	nogprs ok
Set & start GPRS reporting	upload123456 30 (30 = 30 seconds. Set your own time)	upload ok
Change password	pwd123456,XXXXXX	password ok
Sleep mode Sleep after 5 min's Sleep after 10 min's	sleep123456 sleep123456 5 sleep123456 10	sleep on ok
Sleep by shock	sleep123456 shock	sleep shock ok
Cancel sleep	nosleep123456	sleep off ok
Alert type & shock sensitivity 1st digit is alert type 0 = off, 1=SMS, 2 = call, 3 = both 2nd digit is 1 to 9 (low~high)	vib0,3	Off – no alerts
	vib1,3	SMS,3
	vib2,5	Call,5
	vib3,5	SMS & Call,5
Speed alert	speed123456 XX (where XX = 50~120km/h)	speed ok XX
	nospeed123456	nospeed ok
Move alert	move123456 XXXX (where xxxx = 100~5000m)	move ok
	nomove123456	nomove ok
Monitor mode (Listens to tracker - Turns off GPS)	monitor123456	monitor ok
Tracker mode (turns off monitor mode)	tracker123456	tracker ok
Language	LAG1 (English) or LAG2 (Chinese)	Switched to ………..
Reset	format	Re-set to default

To test the tracker is operating correctly, you can send a location request by text; **g123456**
The tracker replies with location data:-

Google link: click link, opens the phones map to

show location. No data means no positioning.
- **V:A** = GPS signal ok. **V:V** = no GPS signal
- **2013-08-30 20:54:15:** the last reported date and time of GPS information.
- **Spd:000km/h:** the speed of tracker.
- **Bat:6** state of battery charge
- **ID:4102000759:** Unique IMEI code of device
- **S19G04；plmn：46001** GSM operator data

Lac:9516, cellid:23596 LBS data

Tap the blue portion of the text and your mobile phone's maps will open to show the location.

Mobile network APN – For information only when product used outside New Zealand

APN (Access Point Name) is the address of your SIM card providers data channel.
In New Zealand Vodafone has their APN built into their SIM cards so the address is automatically configured. Location data is then automatically sent via them to the website. You do not have to programme the APN.

If using a different mobile provider, such as when overseas, or data is not seen on the APP or website, you may have to set the APN.

Send the following text;

      apn123456 XXXXXXX   XXXXXXX = Service providers APN
     Vodafone = vodafone.net.nz

IP Address and Port #
The IP address and port # of the website and APP is pre-configured during manufacture.
                60.191.150.102 7700

If you wish to use your own computer system, the IP address and port# can be re-programmed.

Send the following text;   **adminip123456 XX.XXX.XXX.XXX xxxx**

      XX.XXX.XXX.XXX = new IP address   xxxx = new port #

Specification

GSM module	GSM 850-1800/900-1900Mhz Quad
Network	**2G** GSM/GPRS
GPS sensitivity	-159dB
GPS chipset	UBLOX-7 or SIMTK6260
GPS Position Accuracy	5m (outdoors)
Time Accuracy	Synchronized to GPS time & GMT
Cold start	35~80 sec
Hot start	1 sec., average
Warm start	35 sec., average
Operating temperature	-20°C to 55° C
Humidity	5% to 95% Non-condensing
Water resistance	IPX-6 (PT860) IP65 (PT800)
Charging connector	DC 5V (mini USB port) PT800
	Contact clip DC 5V PT860
Chargers	110~240v to 5v adaptor + USB to mini USB or contact clip
Battery	Li-ion 3.7v 1000mAh
Standby	160 hours max'.

Other Mongoose GPS trackers

Mongoose **VT900** – Vehicle Tracker

This is a wired vehicle tracker and operates very similar to the
battery powered models. It uses the same mobile APP and website.

Being wired, there are a few more features associated with the vehicle;
1. Ignition alert
2. Engine immobiliser
3. Car alarm connection
4. Moving and stopped reporting times
5. Arm/disarm function
6. More detailed travel reports

Mongoose **LT600** – 90~240 Day Tracker

This tracker is ideal for vehicles or equipment with no power supply.
It's battery can last up to 240 days on one charge.
It is easily attached with its built-in strong magnets.
Operation, APP and website are the same as our other battery
powered models.

Mongoose **LT5000** – 5 Year Tracker

This tracker is ideal for equipment or any asset with no power
supply.
The built-in battery can last up to 5 years. It is not re-chargeable.
It is easily attached with its built-in strong magnets.
This tracker only transmits its location once a day at a time of your choice.

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