PROGRAMMING THE TISO TRACK AS YOU GO UNIT

Overview

The tracker can be programmed via SMS text messages.

When you issue a command to the unit it responds to let you know that it has accepted the command and processed it.

Details

All commands (excluding the quick commands listed on the next page) must start with a colon [:]

There are two types of command accepted by the unit.

The Format of a WRITE Command is

The Format of a READ Command is

- is either text data or a Logic state (i.e. 1 or 0) - is the field you want to work with [field] data

By default every command that is issued to the device is automatically written to the memory of the device, when it contacts a server this information is then uploaded to the server.

OUICK SMS COMMANDS

There are a few basic commands that the tracker understands if you send them as a SMS. These do not need the colon before them and are not case sensitive. **IRACK** – (Data Mode) Connect to the internet and send live tracking data to the website. Updates the position approx. every 15 seconds. Does not stop until you send CLEAR

stored in its memory to the server. It will then only send its position only whilst the unit is moving. When stationary, it will go to sleep if STANDBY HISTORY – (Data Mode) Use this mode for continuous tracking (e.g. Fleet Tracking). The device will initially send any previous positional data power mode or Static mode has been selected. (The ability to view historical positioning data will be added to the Tiso website in Summer 2009)

CLEAR – (Data Mode) Stop sending data, the unit will then revert to the power mode selected previously.

ACTIVE – (Power Mode) Makes the unit constantly run at full power. This mode is required if using the 3 I/O connections or one of the expansion

STANDBY – (Power Mode) Sends the unit into a low power "sleep" mode if the unit is stationary and not processing any other commands. The unit This mode uses about 5% of the power of active mode and we suggest that you should use this if you are not using any of the I/O connectors or will wake up automatically if the accelerometer is triggered (if turned on), an SMS command is received, or if one of the alarms are triggered. expansion modules.

HALT – Immobilise the vehicle, if the "X" relay is connected in line to with the starter motor solenoid.

GO – Mobilise the vehicle if the HALT command has been sent.

ARM - Enable alarm messages. (It will only enable the alarms which have been activated individually) It also resets the centre of the geo-fence radius to the current position

DISARM - Disable alarm messages.

GEO – Reset geo-fence alarm.

ACC – Reset accelerometer alarm.

INFO – Sends a text back with a list of possible commands

First digit is SMS and second is Website (valid 00,01,10,11) Default = 11 BATTERY WARNING MESSAGES :R,0

:W,0,

By Default, a warning is sent to all authorised numbers when the battery level drops below the Internal Battery Warning Level. The message "[DEVICE NAME], Low Battery, #, Battery Alarm" is sent to the authorised mobile numbers. These can be disabled, either just for SMS, Website, or both. The first digit is SMS and second is Website (00,01,10,11)

Messages are only sent to the website when in "TRACK" mode, or with GPRS (internet) turned on

READ CURRENT SETTING: :R,0

WRITE SETTING COMMAND: :W,0,[TWO DIGIT BINARY DATA]

WRITE EXAMPLE: :W,0,00 Disable all messages

WRITE EXAMPLE : W,0,10 Disable website messages only

REPLY / CONFIRMATION

[DEVICE NAME],0,[BATTERY WARNING MESSAGE STATUS],[REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,0,00,+447939909384

:W,1,	:R,1	:W,1, :R,1 Authorised Mobile Number 1	Autho
			messa
,2,	:W,2, :R,2	Authorised Mobile Number 2	Autho
			messa
,3,	:W,3, :R,3	Authorised Mobile Number 3	Autho
			messa

Authorised Mobile number that can read and change values and receive sms
messages
Authorised Mobile number that can read and change values and receive sms
messages
Authorised Mobile number that can read and change values and receive sms
messages

By default there are no Authorised Mobile numbers programmed into the device. An Authorised Mobile number is used to restrict control or access to your tracker to up to three mobile numbers. (If you accidentally programme the first number into your tracker incorrectly then any further commands will be ignored. If this happens you must do a Factory Reset which will clear all of the numbers (see Factory Reset section))

It is recommended to include your country code in the mobile number

For example: In the UK for number 07973 123456 use +44 7973 123456 (Note that the 0 has been dropped from the beginning of the number)

READ CURRENT SETTING: :R,1

Read Authorised Mobile Number 1

WRITE SETTING COMMAND: :W,1,[MOBILE NUMBER]

:W,2,[MOBILE NUMBER] (Authorised Mobile Number 3)

(Authorised Mobile Number 1)

:W,3,[MOBILE NUMBER] (Authorised Mobile Number 3)

:W,1,+447939909384

WRITE EXAMPLE:

This would write +447939909384 as Authorised Mobile Number 1

REPLY / CONFIRMATION

[DEVICE NAME],1,[AUTHORISED MOBILE NUMBER 1],[REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,1,+447939909384,+447939909384

% :	.4,	:R,4	Authorised txt Mobile Number 1	Authorised Mobile number
M:	,5,	:R,5	Authorised txt Mobile Number 2	Authorised Mobile number
% :	,6,	:R,6	Authorised txt Mobile Number 3	Authorised Mobile number

Authorised Mobile number that can read and receive sms messages	Authorised Mobile number that can read and receive sms messages	Authorised Mobile number that can read and receive sms messages
Authorised	Authorised	Authorised

Authorised txt mobile numbers are similar to authorised mobile numbers. They are used to allow access to reading a unit configuration and also additionally receive SMS text message from the tracker For example: Static Alarm or Vehicle Alarm message.

It is recommended to include your country code in the mobile number

For example: In the UK for number 07973 123456 use +44 7973 123456 (Note that the 0 has been dropped from the beginning of the number)

READ CURRENT SETTING: :R,4

Request Authorised txt Mobile Number 1

WRITE SETTING COMMAND: :W,4, [MOBILE NUMBER]

(Authorised txt Mobile Number 2)

(Authorised txt Mobile Number 1)

:W,6,[MOBILE NUMBER] (Author

:W,5,[MOBILE NUMBER]

(Authorised txt Mobile Number 3)

WRITE EXAMPLE: :W,4,+447973123456

This would write +447939909384 as Authorised txt Mobile Number 1

REPLY / CONFIRMATION

[DEVICE NAME],4,[AUTHORISED TXT MOBILE NUMBER 1],[REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,4,+447973123456,+447939909384

Turns the Geo-Fence warning messages on or off	
Tum	
GEO-FENCE WARNING MESSAGES	
:R,9	
:W,9,	

If a Geo-Fence radius is set and the unit moves more than this distance, the message "[DEVICE NAME], Geo Fence Alarm, Send GEO to reset geo fence alarm or ARM to lock new location" is sent to the authorised mobile numbers.

These can be disabled, either just for SMS, Website, or both. The first digit is SMS and second is Website (00,01,10,11) Messages are only sent to the website when in "TRACK" mode

READ CURRENT SETTING: :R,9

WRITE SETTING COMMAND: :W,9,[TWO DIGIT BINARY DATA]

WRITE EXAMPLE: :W,9,00 Disable all messages

WRITE EXAMPLE : W,9,10 Disable website messages only

REPLY / CONFIRMATION

[DEVICE NAME],9,[GEO FENCE WARNING MESSAGE STATUS],[REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,9,00,+447939909384

Turns the accelerometer warning messages on or off	
Default = 11	
ACCELEROMETER WARNING MESSAGES	
:R,@	
:W,@,	

If the Accelerometer sensitivity is set, the unit will send a warning message if motion exceeds the threshold level, the message is "[DEVICE NAME], Accelerometer Alarm"

These can be disabled, either just for SMS, Website, or both. The first digit is SMS and second is Website (00,01,10,11) Messages are only sent to the website when in "TRACK" mode or with GPRS (internet) turned on

READ CURRENT SETTING: :R,@

WRITE SETTING COMMAND: : W, @, [TWO DIGIT BINARY DATA]

WRITE EXAMPLE: :W,@,00 Disable all messages

WRITE EXAMPLE : W, @, 10 Disable website messages only

REPLY / CONFIRMATION

[DEVICE NAME], @, [ACCELEROMETER WARNING MESSAGE STATUS], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,@,+447939909384

Turns the confirmation messages on or off	
Default = 11	
CONFIRMATION MESSAGES	
:R,*	
:W,*,	

These can be disabled, either just for SMS, Website, or both. The first digit is SMS and second is Website (00,01,10,11) Messages are only sent to the website when in "TRACK" mode or with GPRS (internet) turned on

READ CURRENT SETTING: :R,*

WRITE SETTING COMMAND: :W,*,[TWO DIGIT BINARY DATA]

WRITE EXAMPLE: :W,*,00 Disable all messages

WRITE EXAMPLE : W,*,10 Disable website messages only

REPLY / CONFIRMATION

[DEVICE NAME],*,[CONFIRMATION MESSAGE STATUS],[REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com, *,00,+447939909384

:R,\$ ALARM MESSAGES Default = 11
:R,\$ ALARM MESSAGES
:R,\$

These can be disabled, either just for SMS, Website, or both. The first digit is SMS and second is Website (00,01,10,11) Messages are only sent to the website when in "TRACK" mode or with GPRS (internet) turned on

READ CURRENT SETTING: :R,\$

WRITE SETTING COMMAND: :W,\$, [TWO DIGIT BINARY DATA]

WRITE EXAMPLE: :W,\$,00 Disable all messages

WRITE EXAMPLE : W,S,10 Disable website messages only

REPLY / CONFIRMATION

[DEVICE NAME], S, [CONFIRMATION MESSAGE STATUS], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com, \$,00,+447939909384

ver system	
Choose between using a website for tracking or a socket serve	
Default=1 (use website)	
Use Website or Socket Server	
:R,?	
:W,?,	

This enables you to choose the protocol to either use website based system for tracking, or a socket server, which is common for commercial customers.

READ CURRENT SETTING: :R,?

WRITE SETTING COMMAND: :W,?,[0 or 1]

WRITE EXAMPLE: :W,?,1 Select Use Website

REPLY / CONFIRMATION

[DEVICE NAME], B, [USE DIFFERENTIAL UPDATE STATUS], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,?,1,+447939909384

:W,%,	:R,%	Accelerometer Sensitivity	Default=3	The level of movement that triggers an accelerometer alarm message. 0 (off) to 5

This is the level that will trigger an accelerometer alarm, on a scale of 0 (off) to 5 (max). If you experience false alarms, lower the amount.

READ CURRENT SETTING: :R,%

WRITE SETTING COMMAND: :W,%,[Sensitivity level]

Select Maximum Sensitivity level WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME], %, [SENSITIVITY LEVEL], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com, %,5,+447939909384

Program sender a	
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This setting is useful if you do not have access to the authorised mobile phone. You will need the last 4 digits of your IMEI number, which is either found on the side of the cardboard box, or on the Telit modem inside the tracker.

WRITE SETTING COMMAND: : W,:, [LAST FOUR DIGITS OF IMEI]

This will program the sender as Auth Mob 1 if the IMEI was 490154203237518 :W,!,7518 WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME],; [NEW AUTHORISED MOBILE NUMBER ONE], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,!,+447939909384,+447939909384

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t.php	
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fault= /trl	
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AF	
:R,/	
W,/,	
٠.	

This is the file used on the tracking website. Do not change under normal operation.

READ CURRENT SETTING: :R,/

WRITE SETTING COMMAND: : W,/, [APN FILE]

Select /trk/txt.php as apn file :W,//trk/txt.php WRITE EXAMPLE:

REPLY / CONFIRMATION

SMS Format - [DEVICE NAME], (APN FILE], [REQUESTING MOBILE NO.]

Example SMS - www.tisogps.com,/,/trk/txt.php,+447939909384

:W,B, :R,B Use differential Update time/distance Default=0	Either Move min dist over and min time elapse Or Move min dist or min time	elapse	
Use differential Update time/distance De	er and min time	Q	
Use differential Update time/distance De			
D	Default=0		
:W,B, :R,B	Use differential Update time/distance		
:W,B,	:R,B		
	:W,B,		

Changes the setting from a complimentary (time AND distance) comparison of time and distance to differential (time **OR** distance).

READ CURRENT SETTING: :R

WRITE SETTING COMMAND: :W,B,[0 or 1]

WRITE EXAMPLE: :W,B,1 Select Differential

REPLY / CONFIRMATION

[DEVICE NAME], B, [USE DIFFERENTIAL UPDATE STATUS], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,B,1,+447939909384

At this speed the Moving Values are used for the min time and dist (ie Not	stationary ones)
Default= 10 knots	
Set Changeover Speed (to moving values)	
:R,C	
:W,C,	

This is measured in knots, so unaffected if unit is set to use Miles or Kilometers.

READ CURRENT SETTING: :R,C

WRITE SETTING COMMAND: :W,C,[CHANGEOVER SPEED]

WRITE EXAMPLE: :W,C,15 set speed to 15 knots

REPLY / CONFIRMATION

[DEVICE NAME], C, [CHANGEOVER SPEED], [DATE], [TIME], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,C,15,+447939909384

		ı
Min.Distance the Tracker must move whilst stationary before records are	accepted as valid	
default= 100		
Minimum Distance in metres (Stationary)		
:R,D		
:W,D,		

READ CURRENT SETTING: :R,D

WRITE SETTING COMMAND: :W,D,[MINIMUM DISTANCE (STATIONARY)]

set minimum distance to 250 meters :W,D,250 WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME],D, [MINIMUM DISTANCE (STATIONARY)], [DATE], [TIME], [REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com,D,250,+447939909384

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Min. Distar	as valid	
default = 10		
es (Moving)		
ance in metr		
num Dist		
Minir		
:R,E Minir		

READ CURRENT SETTING: :R,E

WRITE SETTING COMMAND: :W,E,[MINIMUM DISTANCE (MOVING)]

WRITE EXAMPLE: :W,E,25 set minimum distance to 25 meters

REPLY / CONFIRMATION

[DEVICE NAME],E,[MINIMUM DISTANCE (MOVING)],[REQUESTING MOBILE NO.] SMS Format

Example SMS - www.tisogps.com, E, 25, +447939909384

:W,G,	Device Reset	Reset the Unit

resets the unit WRITE SETTING COMMAND: : W,G,1 CONFIRMATION

[DEVICE NAME], G[RESET], [REQUESTING MOBILE NO.] **SMS Format**

www.tisogps.com,G,1,+447939909384 Example SMS

:W,Н,	:К,Н	:W,H, :R,H GPRS always on flag	default = 0	Enable Continuous GPRS Connection
By de	fault the C	JPRS is established when the data is re	eady to send to the server.	By default the GPRS is established when the data is ready to send to the server. After it has finished sending the tracker will stay connected to the
server	until a de	fault time out occurs. If this flag is tu	irned off the tracker will aut	server until a default time out occurs. If this flag is turned off the tracker will automatically close the GPRS connection as soon as it has finished
1.000	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.			

sending the information.

R,H READ CURRENT SETTING: WRITE SETTING COMMAND: :W,H,[0 or 1]

Enables Continuous GPRS Connection :W,H,1 WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME], H, [GPRS ALWAYS ON STATUS], [REQUESTING MOBILE NO.] **SMS Format**

www.tisogps.com, H, 1, 111108, 170647, +447939909384Example SMS

:R,I	FIRMWARE_VERSION	VERSION		Return the Software Version Number
READ CURRENT SETTING:	r SETTING:	:R,I		
			REPLY	
SMS Format	mat -	[DEVICE NAME],I,[FIRN	[DEVICE NAME],I,[FIRMWARE VERSION],[REQUESTING MOBILE NO.]	FING MOBILE NO.]
Example SMS	SMS -	www.tisogps.com,I,6.6,+44793990938	7939909384	
:W,J, :R,J	GPRS Server		default = 85.234.142.236	Set the GPRS Server that the tracker will connect to (can be DNS Name or IP Address)
The GPRS Serv Some networks	ver that you '	want to use with your dev	ice, this is generally an IP A tworks don't allow domain	The GPRS Server that you want to use with your device, this is generally an IP Address or a Domain address. Some networks don't allow IP addresses and some networks don't allow domain addresses so you may have to try both before you get success.
READ CURRENT SETTING:	r setting:	:К,Ј		
WRITE SETTING	3 COMMAND.	WRITE SETTING COMMAND: :W,J,[GPRS SERVER]		
WRITE EXAMPLE:	Æ:	:W,J,tracker.lsdl.co.uk		set tracker.lsdl.co.uk as the server
			REPLY / CONFIRMATION	ATION
SMS Format	mat -	[DEVICE NAME],J,[GPR	[DEVICE NAME],J,[GPRS SERVER],[REQUESTING MOBILE NO.]	OBILE NO.]

www.tisogps.com,J,tracker.lsdl.co.uk,+447939909384

Example SMS -

Set the GPRS Port that the Tracker will connect on.	
default = 5780	
GPRS PORT	
:R,K	
:W,K,	

The GPRS Port is the port that your server software or custom application is listening on, as default any software supplied via the web site listens on Port: 5780, although this is an arbitrary value that can be changed both in the device and in the software.

READ CURRENT SETTING: :R,

WRITE SETTING COMMAND: : W,K, [GPRS PORT]

WRITE EXAMPLE: :W,K,6001 use port 6001

REPLY / CONFIRMATION

[DEVICE NAME],K,[GPRS PORT],[DATE],[TIME],[REQUESTING MOBILE NO.] or [GPRS COMMAND] SMS Format

Example SMS - www.tisogps.com,K,+447939909384

n of the device	
Request the Current Location	
Request Position of Device	
:R,L	

Displays the Longitude, Latitude, Date and Time of request

READ CURRENT SETTING: :R,L

REPLY

[DEVICE NAME], L, [LATITUDE, LONGITUDE], [REQUESTING MOBILE NO.] **SMS Format**

Example SMS - www.tisogps.com,L,017.09662,59.25454,+447939909384

:R,M	IMEI Number	Return the IMEI number of the device

This will return the tracker's IMEI Number

READ CURRENT SETTING: :R,M

SMS Format

REPLY

[DEVICE NAME],M,[IMEI NUMBER],[DATE],[TIME],[REQUESTING MOBILE NO.]

Example SMS - www.tisogps.com,M,490154203237518,+447939909384

:W,N,	:R,N	Device Name	default = www.tisogps.com	Return the Device Name of the device, this name is also used in sms response
				messages

This is the Device Name of the tracker. The device name is the friendly name that you decide to give to it. The unit responds Www.tisogps.com by

READ CURRENT SETTING: :R,N

WRITE SETTING COMMAND: :W,N,[DEVICE NAME]

This will write 'Tiso Tracker' to the unit :W,N,Tiso Tracker WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME],N,[DEVICE NAME],[REQUESTING MOBILE NO.] SMS Format

Example SMS - Tiso Tracker, N, Tiso Tracker, +447939909384

Set the Name of the Access Point Name (APN) of the Network Operator	
default = asdamobiles.co.uk	
GPRS Operator Name / APN	
:R,O	
:W,O,	

The GPRS Operator is always set to the Network provider of your sim card.

For example: Orange Sim cards use- orangeinternet

(See alternative GPRS configuration section for other examples)

READ CURRENT SETTING: :R,

WRITE SETTING COMMAND: :W,O, GPRS OPERATOR NAME

sets orangeinternet as GPRS Operator :W,O,orangeinternet WRITE Example:

REPLY / CONFIRMATION

[DEVICE NAME], O, [GPRS OPERATOR NAME], [REQUESTING MOBILE NO.]

Example SMS - www.tisogps.com,O,orangeinternet,+447939909384

SMS Format

Set the Password used for GPRS Connections	
default = web	
Password	
:R,P	
:W,P,	

This is the password that your network provider likes you to use when initialising a GPRS Connection

READ CURRENT SETTING: :R,P

WRITE SETTING COMMAND: :W,P,[PASSWORD]

This will set 'aardvark' as the password :W,P,aardvark WRITE EXAMPLE:

REPLY / CONFIRMATION

SMS Format - [DEVICE NAME], [PASSWORD], [REQUESTING MOBILE NO.]

Example SMS - www.tisogps.com,P,aardvark,+447939909384

:W,Q, :R,Q	Min Time inter	Min Time interval between records moving	Dafault = 180	Min.Time Interval between records whilst moving more than Changeover speed
READ CURRENT SETTING:	NT SETTING:	:R,Q		
WRITE SETTIN	WRITE SETTING COMMAND:	:W,Q,[MIN TIME IN	ME INTERVAL]	
WRITE EXAMPLE:	PLE:	:W,Q,240	This will set the minir	This will set the minimum time to 240 seconds
			REPLY / CONFIRMATION	ATION
SMS Format	ormat -	[Device Name],Q,[MIN TI.	[Device Name],Q,[MIN TIME INTERVAL],[REQUESTING MOBILE NO.]	G MOBILE NO.]
Examp	Example SMS -	www.tisogps.com,Q,240,+447939909384	47939909384	
:W,S, :R,S	TISO ALARM	TISO ALARM WARNING MESSAGES	Default = 11	First digit is SMS and second is Website (valid 00,01,10,11)
These can be	disabled, either	These can be disabled, either just for SMS, Website or both	r both.	
READ CURRENT SETTING:	NT SETTING:	:R,S		
WRITE SETTIN	NG COMMAND:	:W,S,[TISO ALARM	WRITE SETTING COMMAND: :W,S,[TISO ALARM WARNING MESSAGE STATUS]	ATUS
WRITE EXAMPLE:	PLE:	: W,S,00 Disable ε	Disable all messages	
		:W,S,10 Disable v	Disable website messages only	
			REPLY / CONFIRMATION	ATION
SMS Format	ormat -	[DEVICE NAME],S,[TISC) ALARM WARNING MESSA([DEVICE NAME],S,[TISO ALARM WARNING MESSAGE STATUS],[REQUESTING MOBILE NO.]
Examp	Example SMS -	www.tisogps.com,S,00,+447939909384	7939909384	

Min. Time Interval between records whilst stationary or moving less than Changeover speed default = 60Min Time interval between records stationary :R,T :W,T,

READ CURRENT SETTING: :R,T

WRITE SETTING COMMAND: :W,T,[MIN TIME INTERVAL]

This will set the minimum time to 120 seconds :W,T,120 WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME], T, [MIN TIME INTERVAL], [REQUESTING MOBILE NO.] or [GPRS COMMAND] **SMS Format**

Example SMS - www.tisogps.com, T,120,+447939909384

Set the Username used for GPRS Connections default =web

Username

:R,U

:W,U,

This is the username that your network provider likes you to use when initialising a GPRS Connection.

READ CURRENT SETTING: :R,U

WRITE SETTING COMMAND: :W,U, [USERNAME]

This will set 'user1' as the Username :W,U,user1 WRITE EXAMPLE:

REPLY / CONFIRMATION

SMS Format - (DEVICENAME),U,(USERNAME), [REQUESTING MOBILE NO.]

Example SMS - www.tisogps.com, U, user1, +447939909384

:W,V,	Factory Reset (must use last 4 digits of IMEI)	Factory Reset the Device(removes all user settings)
Resets the	Resets the device and all of its settings to what they were when the manufactured, all user data is erased. To do a factory reset the user must also send	user data is erased. To do a factory reset the user must also send
the last 4 d	the last 4 digits of the IMEI number of the tracker (this can be found on the TELIT modem, or the sticker on the side of the outer box)	odem, or the sticker on the side of the outer box)
(This is use	This is useful if the user accidentally programmes an invalid Authorised mobile number into the device, as it clears all memory including the	ber into the device, as it clears all memory including the

Authorised Mobile list)

:W,V,[Last 4 IMEI digits] WRITE SETTING COMMAND:

This will set reset the box if the IMEI was 490154203237518 :W,V,7518 WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME], V, [LAST 4 DIGITS OF IMEI], [REQUESTING MOBILE NO.] SMS Format

www.tisogps.com,V,7518,+447939909384 Example SMS

:W,W,	:R,W	Geo-Fence Alarm	Default =0 (off)	Geo-Fence Alarm

Geo-Fence alarm triggers if the unit moves out of a definable radius.

This can be useful to allow some movement (e.g. construction or farm machinery), but it will send a notification if it is moved too far. This can also be useful for boats, where the accelerometer alarm is unsuitable, due to the constant motion of the water.

The distance is measured in meters and the default setting is 0 meters (off)

To use geo-fence alarm, the accelerometer must be activated as well, but you can turn off the accelerometer alarm messages.

We recommend that this is set to a minimum of 100 meters if turned on to avoid false alarms, due to short inaccuracies caused when one of the tracked GPS satellites cannot be contacted for various reasons.

If the geo-fence alarm is triggered, it can be reset to the old position by sending the command GEO You can reset the centre of the radius to the current position of the unit by sending ARM

READ CURRENT SETTING: :R,W

WRITE COMMAND: :W,W,[DISTANCE IN METERS]

This will set Geo-fence radius to 100meters :W,W,100 WRITE SETTING EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME], W, [GEOFENCE DISTANCE], [REQUESTING MOBILE NO.] **SMS Format**

Example SMS - www.tisogps.com,W,100,+447939909384

X" Relay State	:R,X "X" Relay State
3	

This is the state of the X relay, used for immobilising vehicles.

READ CURRENT SETTING: :R,X

WRITE COMMAND: :W,X,[0 or 1]

This will set the relay state to Open :W,X,1 WRITE SETTING EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME],X,[RELAY STATE],[DATE],[TIME],[REQUESTING MOBILE NO.] **SMS Format**

Example SMS - www.tisogps.com,X,1,+447939909384

Used to link the vehicle mileage to the tracker	
default = 0	
Mileage	
:R,Y	
:W,Y,	

This is allows you to configure the mileage of the vehicle or trailer that the device is installed in. It provides you with an easy means of checking that the mileage reported by the Vehicle or Trailer matches the value stored in the device

(Due to accuracy of GPS Location systems you will always have a slight discrepancy between mileages)

READ CURRENT SETTING: :R,Y

WRITE COMMAND: :W,Y,[MILEAGE]

This will set the Mileage to 26750 :W,Y,26750 WRITE EXAMPLE:

REPLY / CONFIRMATION

[DEVICE NAME], Y, [MILAGE], [REQUESTING MOBILE NO.] or [GPRS - COMMAND] **SMS Format**

Example SMS - www.tisogps.com, Y,26750,111108,170647,+447939909384

Z /W.	7 d.	I Too Miloo	40.60mlt - 1	The Wiles for an indistinue on Vilomotous
<u> </u>	. R.	CSCIATICS	=	USE WHICH CALCULATIONS OF ALLOHOLES S

Default setting is Miles but if you want to use miles select this. Internally the tracker logs the distance it has travelled, changing this effects the calculation used for mileage/kilometers Miles = 1, Kilometers

READ CURRENT SETTING: :R,Z

WRITE COMMAND: W,Z,[0 or 1]

WRITE EXAMPLE: :W,Z,1

This will change the units used to miles, choose 0 for Kilometers

REPLY / CONFIRMATION

SMS Format - [DEVICE NAME], Z, [USE MILES], [REQUESTING MOBILE NO.]

Example SMS - www.tisogps.com,Z,1,+44793909384

Max 420 min 300
Defailt=333
Internal Battery Warning Level
: R ,#
:W,#,

Internal battery alarm is triggered when charge falls below this point (WORKS IN ACTIVE MODE ONLY)

READ CURRENT SETTING: :R

WRITE COMMAND: :W,#,[Level]

This will change the internal battery warning level to 400 :W,#,400 WRITE SETTING EXAMPLE:

REPLY / CONFIRMATION

- [DEVICE NAME],#,[LEVEL],[REQUESTING MOBILE NO.]

SMS Format

Example SMS - www.tisogps.com,#,400,+447939909384