



# **ENAiKOON locate-04**

Remote controlled tracking and monitoring

ENAiKOON locate-04 was designed to collect and transmit basic data of trackables, like cars, trucks, construction equipment, trains, busses, boats, etc, at the lowest possible price.

The device provides the following data:

- GPS position, heading direction of motion, speed
- voltage of the internal battery
- timestamp
- serial number
- 2 digital inputs (e.g. for ignition, operating hours, battery charge monitoring, etc.)
- 1 digital output (e.g. for immobilisation of a stolen vehicle and as a backup digital input)
- voltage of the external power supply can detect ignition on / off
- internal 560mA/h rechargeable battery used to operate the device temporarily without an external power supply

The device is equipped with a quad-band GSM modem with GPRS and SMS support, as well as a 65 channel GPS receiver with high sensitivity. With the precision of only a few metres it can locate any trackable globally.

The functionality of the device offers the user a wide range of possibilities to monitor mobile properties and provide a substantial contribution to your company's bottom line, through the device's extensive integration capabilities.

## **Standard Features**

GPS - precise information about the current location of the trackable

GPRS - fully supported, cost-effective dedicated line to the internet

Data, firmware, and configuration parameters can be individually modified by the user for each device, either through the built-in serial interface and a configuration utility or via the internet (wireless network)

The following ENAiKOON applications are designed to complement this device perfectly

#### • inViu pro

internet telematics portal for professionals with comprehensive trackable data reporting capabilities: location, route, monitoring and alarming of fuel theft / consumption and thresholds, CAN data analysis, and reports with all black boxes, trackers, and GPS enabled smartphones together

#### • inViu web

GPS location cost-effective entry level solution: realtime display of positions on an OpenStreetMap<sup>®</sup> map, geofence monitoring and alerting, etc.

#### inViu touch

software suite for smartphones: current location of the mobile phone, map showing the position of trackables directly on the phone, route planning, reading and transmission of NFC TAG data, etc.

#### • ENAiKOON DGPS-enabler

the server component for all users who are dependant on an increased accuracy of GPS coordinates

#### ENAiKOON M2M-commserver

an internet-based gateway for all communication tasks between tracking devices and any back-end application



## A powerful configuration tool

The ENAiKOON locate-04 tracking device can be adjusted quickly and easily to the specific requirements of each application. The minimum requirements: a PC, a serial cable, and the free-of-charge ENAiKOON locate-04 configuration tool.

With the use of this tool, complicated and time consuming programming of the devices can be avoided.

Instead, with a few clicks of the mouse in the configuration tool, the device will be ready to perform its assigned tasks

The configuration of the device can be changed wirelessly at any time, regardless of its location.

«DTE: These events depend on the "moving mode" which becomes (in)active depending on your motion detection settings (section 57)		Store in log			Actions to perform						
		GPS position		counters	transmit log	reset timers	Action / send SMS	Output 1	Digital output port status change Output 2 Output 3		Output 4
	Start moving		•					•	•	•	
	While moving		· · ·					•][	•	•]	
	Stop moving		•					•][	•][	•	
	While not moving		. v					•	•	•	
Speed becomes higher than	kilometers per hour 🔹		-					•][	•][	•]	
Speed becomes lower than	kilometers per hour 💌		•					•][	•	•	
<sup>2</sup> Travelled distance	meters 💌		-					•][	•	•]	
Direction ch	ange in degrees		-					•	•][		
New "Speed above even ("speed below event" wo 0. Default (every condition	t" trigger with additional sp rks as hysteresis for the a on exceeding)	beed increase bove event a	a of: nd resets its inc	remental con	ndition)	•					
Reset last "Travelled	distance" point also with v	alld GPS posi	tion logs from o	ther events					57. M	lotion detection set	tings
				OK		Cano			62	GPS receiver settin	vie

Change all voltag	es to default	values for	•			
Power supply actions	ernal power	backup battery	Motion detection			
		,	When external input is detected Disable	d	•	
Automatically power down when the power supply voltage drops below	5,40	2			13,20	Motion trigger action
Automatically power-up again when the	6.00	,	When external power supply voltage level is betw	veen	16,00	No action
power supply voltage raises to					26,50	
<sup>1</sup> Enter power saving mode when the power supply voltage drops below	11,80	3	When external power supply voltage level is bet	veen	29,90	No action
			The optionally built-in vibration sensor detects	count		
In the power saving mode, the GPS receiver is switched off (so no live				seconds		No action
SPS info available for motion/region detecti witched on whenever a position is to be lo		temporarily	(,	minimum		
E Level for the (optional) Li-ion battery that is used when the external bower supply level results in power-down mode. Leave this field blank for firmware default voltage.			The optionally built-in acceleration/Gforce sensor detects motion (leave level fields blank	start >		No action
			for firmware defaults)			
If a level is supplied for the external field,	nouver envio	a mada will	When GPS speed in kilometers per hour becomes higher than	Default	-	No action
ways be active while running on (optional	) Li-lon batte	ry, unless a level				

NOTE: The digital active/inactive state for an input depends on your	Store in log			Actions to perform						
digital input settings (section 51)	GPS position	photo	counters	transmit log	reset timers	Action / send SMS	Digital output port status change Output 1 Output 2 Output 3 Outp			Output 4
input 1 becomes active 🔹		-					-	-	•	
input 1 becomes inactive		•					•	•	•	
input 2 becomes active		•					•	•	•][	
input 2 becomes inactive		•					•]	•	•][	
input 3 becomes active		•					•][	•]	•][	
input 3 becomes inactive		•					•	•	•]	
input 4 becomes active		-					-	•	•	
input 4 becomes inactive		-					•	•	•	
Status change of output(s) 1 2 3 4 Virtual 1 2		•				) (	-	-	•	
				OK		Cancel			. Digital input settin	

### Connectors

- Power supply, input / output Molex 43045-2412
- GSM antenna (mobile radio) SMA (f)
- GPS antenna (satellite tracking) SMA (f)

### Features

- Telit quad band GSM module
  - GPRS support (class 10)
  - text message (SMS) support
- SkyTraq 65 channel parallel GPS receiver, low power
- rechargeable battery, 560 mA/h
- standard SIM card reader, suitable for 1.8 V and 3 V SIM cards
- 2 digital inputs for ignition, door contacts, etc.; protected against wrong polarity and short circuit
- 1 digital output (200 mA); can also be used as digital input
- 1 digital input / output, 3 V
- 1 serial port (for device configuration)
- memory for approximately 6,000 positions and status messages
- 3 LEDs for GSM / GPS / POWER
- durable black aluminium housing: 100 x 67 x 20 mm (3.94 x 2.64 x 0.79 in)
- weight: 145 g (5.12 oz.)
- operating temperature:
  - -30 °C to +60 °C (-4 °F to +140 °F)
- battery recharging only possible above 0 °C (32 °F); data transmission possible only with an operational battery
- power supply 6 V to 31 V DC, with software supervision
- 1-Wire port for iButton reader
- vibration sensor by G-force sensor for low-power operation
- power supply for peripheral devices: 3.5 V to 4.2 V, max. 250 mA
- high performance low power modes with a variety of configuration options < 5 mW in standby mode
- software update possible via the serial port of the device or wirelessly via GPRS
- combined GSM / GPS window antenna
- power and signal cables
- E4-tested according to 95/54/EC



## Products and prices

Product	Part no.	Product description	Price
ENAiKOON locate-04 complete package	LOC-09-04	<ul> <li>Basic device GPS / GPRS</li> <li>tracking device</li> <li>GSM / GPS window antenna</li> <li>connection cable (power supply and I/O)</li> <li>backup battery 560 mA/h</li> <li>1-wire connector for ENAiKOON driver-id</li> <li>configurable</li> </ul>	€ 149.00
ENAiKOON device setup	M2M-09-01	Device setup • activation and unlocking of the SIM card • insertion of the SIM card into the device • software configuration and installation on device • production of harness according to customer needs • device configuration • registration with the ENAiKOON M2M-commserver • registration with inViu pro / web • full functional test of the device • full functional test with inViu pro / web (must be ordered along with the device)	€ 69.00

## Accessories

Product	Part no.	Product description	Price
ENAiKOON rechargeable battery	ZUB-09-22	Internal rechargeable battery, 560 mA/h, with charging circuit	€ 19.90
ENAiKOON IP66 housing	ZUB-09-25	Waterproof housing, synthetic material, IP66 including installation of the electronics and the antennas into the housing	€ 49.90
ENAiKOON antenna-16	ANT-09-16	Combined GSM / GPS roof antenna, with 3 m (9.84 ft) cable	€ 89.90
ENAiKOON accessory-21	ZUB-09-21	Serial cable 2 m for the configuration of the ENAiKOON locate-04 with a PC	€ 38.90
ENAiKOON accessory-23	ZUB-02-23	Alert button for surface mounting	€ 39.90
ENAiKOON accessory-24	ZUB-02-24	Illuminated alarm button 8.1 mm (0.32 in) with lamp	€ 16.90
ENAiKOON accessory-26	ZUB-02-26	12 V power adapter allows to operate ENAiKOON locate-04 with 220 V AC	€ 39.90



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