

Quick start guide for tracker GPS/GLONASS/GSM MT-860 ENT

1. General information

This quick start guide applies to the car tracker **GPS/GLONASS/GSM MT-860 ENT** (hereinafter referred to as the "tracker")

Table 1. Specifications

Parameter	Value	Comment
Power		
Supply voltage	9 ÷ 36 B	
Average current consumption (24V)	до 125 mA	online monitoring
	до 45 mA	standby
Built-in battery capacity	1100 mAh	supplied as an option
Built-in battery life time	Up to 4 hour	depends on settings and ambient temperature
Operating conditions		
Working temperature range	-40 ÷ +85 °C	with data transfer to the server
	-10 ÷ +65 °C	working from backup battery
	0 ÷ +45 °C	charge battery protection
Case protection degree	IP54	with connector covers and when using corrugated tubes
Mass and overall characteristics		
Terminal weight	300 grams	
Case size	98x109x24 mm	with connector covers
	98x75x24 mm	without connector covers
GSM and GNSS antennas	internal antennas	
Built-in sensors and modules		
The amount of non-volatile memory	16 Mbyte	
Number of entries in the telemetry log	Up to 500 000	
Accelerometer, gyroscope, intrusion sensor, buzzer	+	
Beacon mode module	+	
Traffic encryption function	+	
Ports and interfaces		
Inputs	4	For reading digital, analog, frequency and counter value
Outputs	2	Open collector type, switching voltage up to 65 V, current up to 200 mA
RS-485, RS-232, 1-wire, CAN, USB	+	

2. Indication

On the tracker board there are three LED indicators visible from the outside of the housing to control the operation of the tracker. The purpose of the indicators is shown in Figure 1 and described in Table 2

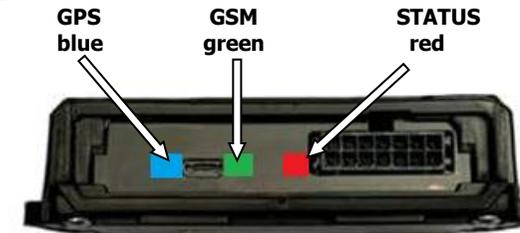


Figure 1. Purpose of indicators

Table 2.

Indicator status	Tracker status
Blue GPS indicator	
Off	Off/ Power saving mode
Flashing blue 1 time per second - - - - -	Searching and capturing GPS signals
Flashing blue once every 5 seconds - - - - -	Position detected
GSM indicator green	
Off	Off / Power saving mode
Flashing green 1 time per second - - - - -	Search and registration in the GSM network
Flashing green once every 5 seconds - - - - -	Registered in the GSM network
Glowing green constantly ————	There is an exchange of information with one of the Servers
STATUS indicator red	
Off	No external power / in "Hibernation" mode
Glowing red constantly ————	There is external power
Flashes red once every 5 seconds - - - - -	Power saving mode
Flashes red 1 time per second - - - - -	USB powered

3. Diagram of the interface connector

Scheme of the interface connector (view from the side of the tracker contacts) (Figure 2):

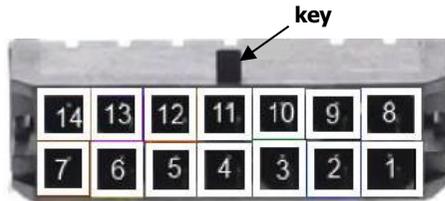


Figure 2. MT-860 ENT Interface Connector

Table 3.

Nº pin	Wire color	Function
1	Black	Power GND ("-")
2	Blue	RS-485 B
3	Yellow-green	RS-232 TX/RS-485 B
4	White	CAN H
5	Gray	Universal port 0 (P0+ D, F, C, A)
6	Yellow	Universal port 2 (P2+ D, F, C, A)
7	Brown	Output P4
8	Red	Power VCC ("+")
9	blue-white	RS-485 A
10	Green	RS-232 RX/ RS-485 A
11	White-blue	CAN L
12	Orange	Universal port 1 (P1+ D, F, C, A)
13	Violet	Universal port 3 (P3- 1W, D, F, C)
14	Brown	Output P5

4. Installation requirements

- All actions during installation must be carried out **ONLY WITH THE POWER OFF!**
- **Do not install the tracker in places subject to increased heat - this may lead to failure of the backup battery!**
- The GPS/GLONASS antenna must be placed at least 0.5 m from the Terminal.
- Before installation, you must install at least one SIM-card in the SIM1 slot and connect the battery (if any)

5. Preliminary setting of the Terminal

The tracker can be configured in several ways: using the SCOUT-Configurator software, connecting to the tracker via USB, via the Internet or using SMS commands.

To configure the tracker, you will need the SCOUT-Configurator software. This software requires a computer with Windows 10 operating system or newer.

SCOUT-Configurator, Documentation and drivers you can download at this link or QR code <https://8xx.scout-gps.ru/mt860ent>



Before installation, the following minimum set of parameters must be configured:

Connection settings to the telematics Server:	GPRS settings:	Port settings:
<ul style="list-style-type: none"> - Server address, - Port, - Server communication protocol 	<ul style="list-style-type: none"> - login, - password, - APN (access point) 	<ul style="list-style-type: none"> - make settings depending on the connected sensors and devices

6. Typical installation scheme

