TRIKDIS

SMS RECEIVER GM14

USER MANUAL

Warranty and liability limitations

The SMS receiver GM14 is provided with a 24 months warranty to become effective from the purchase-sales date. The warranty period shall ensure free of charge repair of troubles occurred due to the manufacturer fault.

The warranty shall be applied, if the receiver is installed by qualified specialists according to this document.

Upon expiry of the warranty period the maintenance and repair of the receiver shall be performed at the buyer's expense.

The warranty may be terminated prematurely in the following cases:
- The receiver was repaired or was attempted to repair by an unauthorized person;
- The receiver was used not for its intended purpose;
- The receiver was stored and/or installed in an inappropriate premises with inappropriate climate conditions, aggressive chemical environment;
- The receiver was mechanically broken and/or intentionally damaged;
- The receiver was damaged due to *force-majeure* (lightning discharge etc.) circumstances.

The manufacturer shall not be liable for the following:
- receiver malfunctions, if the receiver was installed or used not according to its operation manual;
- termination or restriction of electrical power supply to the receiver buyer or to the receiver user, and shall not reimburse the receiver buyer or the receiver user for the occurred property or non-property losses;
- robbery, fire of premises or other incurred losses to the receiver buyer or to the receiver user, and shall not reimburse the receiver buyer or the receiver user for the occurred property or non-property losses as a result of these events.

Attention!

Read this user manual carefully.

Copyright	© 2016 UAB Trikdis. All rights reserved.
Trademarks and patents	Other trade names mentioned in this document may be registered trademarks or trademarks of respective product manufacturers or vendor products.
Manufacturer	JSC Trikdis,
	Draugystės g. 17, LT-51229 Kaunas, Lithuania
Version	This document applies to SMS receiver GM14 with firmware version v.1.02 or more recent.
Certification	CE mark
European Union directives	2004/108/EC (EMC directive)
	1999/5/EB (compliance directive)
Further information	Contact information may be found on www.trikdis.com

Content

1   Description

SMS receiver GM14 is designed to receive encrypted SMS messages from TRIKDIS GSM transmitting devices, works only in receiving mode. Received data is transferred through RS232 to software IPcom or directly to ARC monitoring software (Monas MS, if protocol is SURGARD).

Note: If GM14 cannot forward data, received messages are stored either in SIM card or in SMSC (Short Messages Service Centre).

2   Technical Parameters

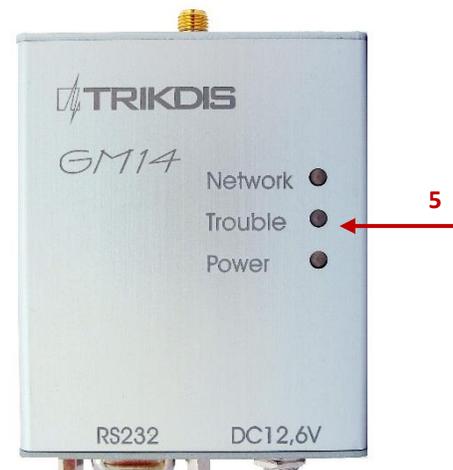| Name	Description
Operating frequency range	850/900/1800 MHz
Power supply	12.6 VDC, permissible voltage deviation 10-15 V
Current	average 60 – 100 mA (standby mode), pulses up to 250 mA in transmitting (while receiving data)
Output protocol	RS232, 8N1, Surgard or IPcom protocol
Operation environment	-10°C to 50°C, humidity up to 80% when +20°C
Dimensions	126 x 66 x 26 mm

3   Package Content

SMS receiver GM14	1 pc.
GSM antenna with a magnetic pad	1 pc.
RS232 cable	1 pc.
Power supply cable	1 pc.
Adhesive tape for fastening to surface	2 pieces by 10 cm

Note: SIM card is not included in assembly.

4   Receiver Structure

1	RS232 Null Modem cable input
2	SIM card holder
3	USB port for programming
4	Power supply connection
5	LED indicators

4.1 Light Indication

LED indicator	Light status	Description
"Network" network operation	Off	Receiver are not registered in GSM network.
	Yellow blinking	Connecting to GSM network.
	Green solid	Receiver connected to GSM network.
"Trouble" error messages, programming mode	Off	Operates without problems.
	Green solid	Messages in receiver`s buffer
	Green blinking	Programing mode.
	Red solid	No connection with monitoring software.
	Red blinking	Could not find SIM card or PIN code is required.
"Power" shows power supply status	Off	No power supply.
	Green solid	Supply voltage is sufficient.

5 Receiver installation

5.1 Setting of exploitation parameters

Before connecting receiver GM14 to the alarm system, exploitation parameters must be set as shown below.

Note: Drivers must be installed. Installation description can be found in ANNEX 1.
Program Putty must be installed. Installation description can be found in ANNEX 2.

1) Connect the SMS receiver GM14 to computer with USB cable;
2) Run program Putty and then press any key on the keyboard;
3) The new window opens with module settings:

```
GSM Receiver GM14 Ver.:1.0_

 *1. PROTOCOL:          Sur-Gard
    2. Receiver Nr:     09
    3. Line Nr:         1
    4. Decr.Key:        123456
    5. HeartBit Time:   030
 *6. Baudrate:          115200 b/s
```

4) If receiver GM14 must transfer data to existing monitoring software, press the number key [1] and change existing protocol to Sur-Gard. To save, press [Enter].

```
GSM Receiver GM14 Ver.:1.02
 *1. PROTOCOL: IPCom
```

> **Note:** if receiver will be used with the IPcom software, additional parameters should be set in IPcom software. See Annex 3.

5) To change default settings press number of chosen parameter (e.g. [3]) in keyboard, enter new value and press [Enter].

> Set new Line Nr. (from 0 to F) and press <ENTER>

5.2 Equipment Installation

1) Put activated SIM card into SIM card holder. <u>PIN request must be disabled</u> (this can be done with your mobile phone).
2) Connect GSM antenna to the antenna port.
3) Connect SMS receiver GM14 with computer using RS232 cable to forward events to the monitoring software.
4) Connect the Receiver to power supply with the power supply cable.
5) SMS receiver GM14 will send test messages in specific intervals to the monitoring software to ensure that it works properly.

ANNEX 1

USB driver installation
1) Download USB driver file from here: http://www.trikdis.lt/ ,extract file.

2) To install driver:
2.1. Go to Settings/Control panel/System,
2.2. Open [Device Manager] and find new device.
2.3. Right click on mouse and in menu choose [Update driver].
2.4. Opens "Found new Hardware Wizard".

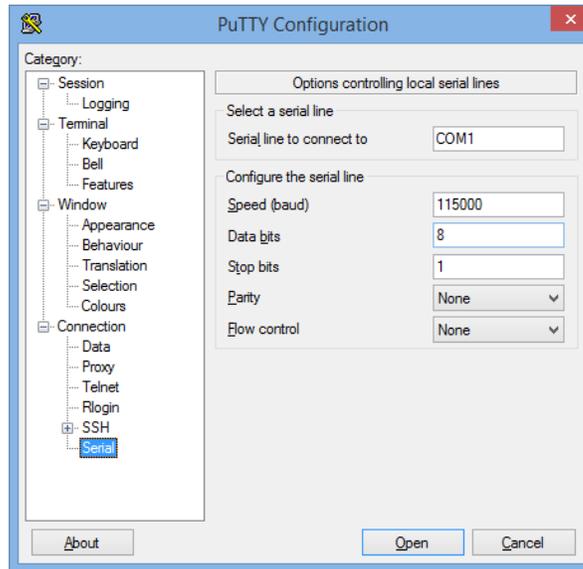|	
3) Choose: Yes, this time only and click [Next]. 4) Select to install from a list or specific location and click [Next].	
5) Select all fields as shown in picture and click button [Browse], select directory path where driver is. Click [Next].	
6) In pop - up window "Hardware Installation" select [Continue Anyway] and installation will start. 7) Click [Finish] and USB driver installation will be done.	

ANNEX 2

Putty program installation and configuration

1) Download Putty installation file from internet.
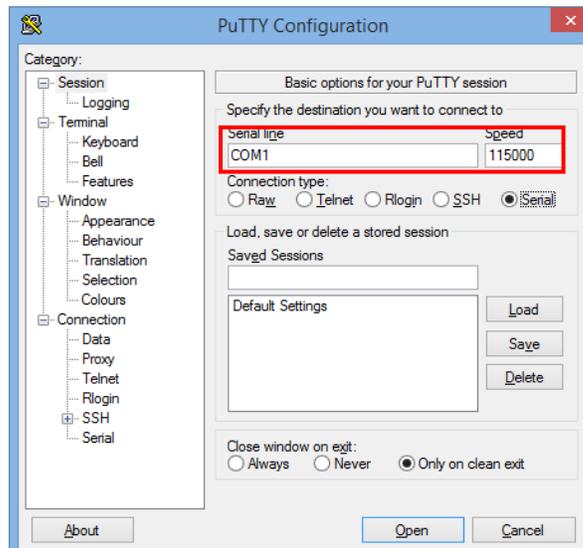2) Select to run this file.

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3) In new window select:

    3.1. In side menu branch *Connection*, open category *Serial*.

    3.2. In this category set the virtual COM port number, with which receiver are connected to the computer.

    3.3. Set these parameters: Speed (baud) - 115000, Data bits - 8, Stop bits -1, Parity –None, Flow control - None.

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4) Go back to branch *Session.*

    4.1. Select connection type - *Serial*. There you should find already set parameters.

    4.2. Click button *Open.*

    4.3. When new window will open press any key in your keybord and then you can start program your SMS receiver GM14.

ANNEX 3

GM14 and IPcom interconnection

1. In software IPcom open the window *Options / Connections* and then set the option *Trikdis GSM modem* in the list *Modem type*.
2. Press the button *Setup* and set parameters of comport. They must be 115200-8-1-N-N.
3. Mark the box *Started*.