



[ENG] NetPing SMS, User guide

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Developer and manufacturer:

NetPing east Co Ltd.

[SMS] Introduction

This user guide helps to become familiar with peculiarities of a **NetPing SMS** device operation as well as get an idea about its functionality and technical specifications, and prepare a device for operation.

A User Guide is designed for network administrators and users, who set up or operate a device. To work with a device properly, a user must have an idea about the principles of building and functioning of local networks as well as possess the next knowledge and skills:

- Basic knowledge in the area of local and global networks;
- Basic knowledge in the area of architecture and principles of work of TCP/IP networks;
- Basic knowledge in the area of architecture and principles of work of Ethernet networks.

[SMS] NetPing SMS Device Overview

In this section a purpose of a device is described, as well as its appearance.

Purpose of a Device

NetPing SMS device allows sending and receiving SMS messages for any NetPing devices, which are in a network. NetPing SMS converts inbox SMS messages into SNMP SET commands or SNMP GET queries, and a received SNMP response goes back to a user as an SMS message. Inbox SNMP TRAP notifications a NetPing SMS device converts to an SMS message and sends it to the previously configured list of phone numbers.

A NetPing SMS can be used for:

- Requesting redouts from sensors of devices, connected to a network, with the help of SMS messages.
- Turning on/Turning off NetPing AC/DIN sockets (IO lines) with the help of SMS messages.
- Receiving SMS notifications from devices bit equipped with a GSM module.

A NetPing SMS device may be used with any devices supporting SNMP v1 protocol.

Appearance

An appearance of a device is shown on the pictures:



A front panel:



A back panel:



[SMS] Sockets and Indication Elements

Sockets and indication elements on a front panel of a device are shown on the picture:



Sockets and indication elements on a back panel of a device are shown on the picture:



Reset Button

Reset button is designed for resetting parameters to factory values. To reset parameters press a **Reset** button with a keen object and hold it during a device turning on.

SIM Slot

A **SIM Card** slot is designed to install a SIM card. A SIM card is installed contacts down. A truncated edge of a SIM card should be inside a device. Correct installation of a SIM card is shown on the picture.



GSM OK LED

When lighting, it means a successful connection to a GSM network and readiness to receive/send SMS messages.

GSM ANT Socket

A **GSM ANT** socket is designed for connecting an external GSM antenna to a device.

LAN Socket

An Ethernet 10/100 BASE-T port is used for connecting to a network.

An Ethernet port has two LEDs. The left one – **CPU**, when lighting, it means a device is turned on and when blinking it means transferring packages to a network. The right one – **Link**, when lighting it means having a link on the port, and when blinking, it means receiving packages from a network.

EXT BAT STATUS Terminal Block

The functionality of this terminal block is not implemented in the firmware of the device, so in practice it cannot yet be used.

A **EXT BAT STATUS** terminal block is designed to connect IO **STATE** lines of a NetPing mini-UPS device.

Terminal 1 – . GND

Terminal 2 – IO Line 2

Terminal 3 – IO Line 1

Logic level 0 – no more than 0.3 V. Logic level 1 – no more than 0.7 V. A maximum allowable voltage is 5 V.

Electric parameters of IO lines

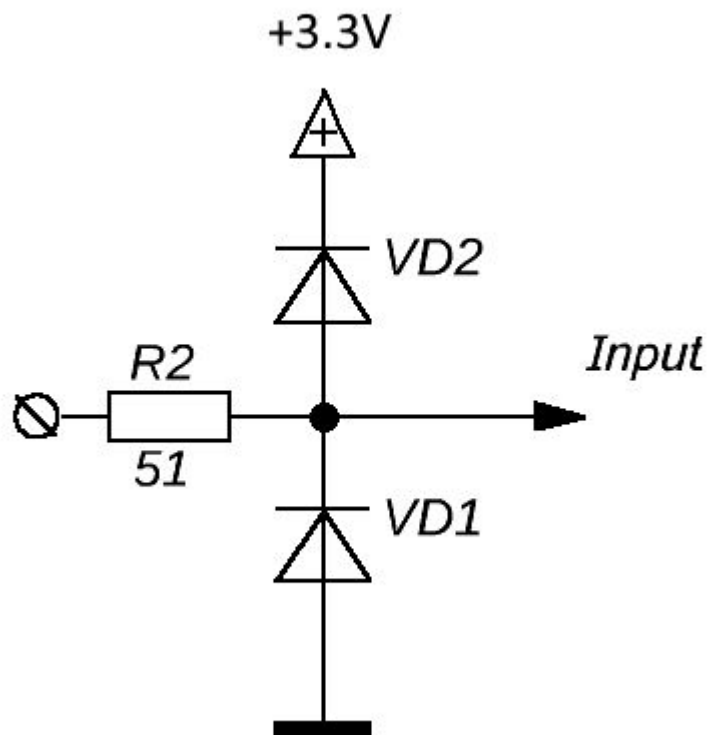
In the «output» mode:

- the voltage of logic «1»: maintains +3,3V 2mA (is not used as the output);
- the voltage of logic «0»: maintains 0 V, 2 mA (is not used as the output).

In the «input» mode:

- voltage of logic «1»: > 2,31 V;
- voltage of logic «0»: < 0,99 V.

Equivalent Circuit



+12V Socket

+12V socket is designed to connect an external power supply unit. A power supply socket polarity: “+” in the center.

[SMS] Installation and Connection

NetPing SMS can be installed on a horizontal or a vertical surface. There are holes on a body of a device to mount it.

When installing a device, there is a need to take into account the next restrictions:

- It is not recommended to install a device in the zones with weak GSM coverage.
- Avoid direct sunlight on a device
- Do not install a device near any heat sources
- Do not open a body of a device

[SMS] Shipping Kit



A shipping kit includes:

- A NetPing SMS device
- A mating terminal
- A GSM antenna
- A 12 V power supply unit
- An instruction

[SMS] Operating and Storage Conditions

A device is designed for continuous round the clock operation indoors. In operating conditions of use, a device is resistant to an environment with temperature in a range of 0°C - +40°C (32 – 104 degrees Fahrenheit) and relative humidity in a range of 5% - 95 % at 25°C (77 degrees Fahrenheit) without moisture condensation. A device should be protected from direct moisture and direct sun light.

A construction of a device provides a reliable uninterrupted work during a long period of time without maintenance. Highly developed functionality of remote setting and configuration of a device allows changing any parameters remotely and centrally for the most of the devices.

Devices should be stored in a temperature range between - 40°C and +70°C.

In rooms for keeping a device, a content of dust, acid and alkali gases, aggressive gases and other harmful impurities causing corrosion, should not exceed a content of corrosion-active agents for atmosphere of type 1.

Important! A device must be connected to a power supply socket with a grounding contact or a hole, where a contact, located at an outlet and connected to a ground wire, is inserted. Grounding must be performed according to the State Standard P 50571.21-2000. An infraction of this rule is a violation of a device operation conditions and may be dangerous to human lives as well as damage other devices!

[SMS] Warranty

The manufacturer guarantees normal operation of the product within 24 months from the date specified on the warranty sticker if a buyer follows operating and storage conditions. Manufacturer warranty applies only to failure of a device which occurred because of defects in manufacturing process of products and components used. If during a warranty period the manufacturer receives a notice of such defects, it will repair or exchange the product (by its own discretion). If the manufacturer is unable to repair or replace a flawed item during a period of time determined by the current legislation, the manufacturer according to a customer's wish can return the amount paid for the product at the time of purchase. The manufacturer provides a limited warranty on firmware and device configuration software. In case of detecting any errors in the software which became known to the manufacturer on its own or from a customer, the manufacturer will fix these errors within a reasonable time and provide an update for the customer. Only the errors that block normal use of the device at conditions and for performing functions described in this User Guide are a subject to mandatory fix. This warranty does not apply to cases when defects appear because of: a misuse of a device, any modifications of a device without a written permission of the manufacturer, opening up a device (a warranty sticker on the case of a device is damaged) except cases foreseen by this description; repairing by unauthorized personnel, using or storing a device out of the range of allowable temperature and humidity, pressure, a software modification, and the reasons, listed below:

- A device failed because of the problems in a public electric network, plugging a device into power supply networks with invalid parameters, absence of grounding, etc. (power fluctuations and surges, overloading, etc.);
- A device failed because of having liquid inside;
- A device failed as a result of extreme temperatures;
- A device failed because of mechanical damage;
- A device failed because of connecting a power supply unit with invalid output voltage or a defective power supply unit;
- There are foreign objects, insects, etc inside the enclosure;
- During operation a voltage bigger than an allowable voltage range by the Ethernet standard has been supplied to the ports of a device.