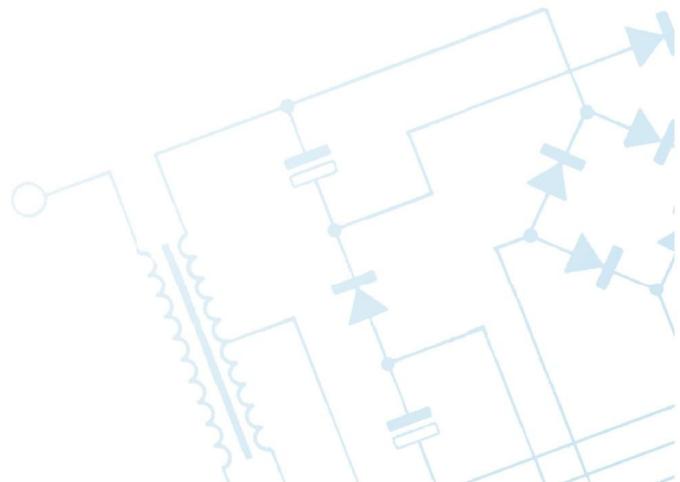


USER MANUAL

Vide GSM communication module





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1 General information

1 General information

Thank you for choosing our product. We congratulate you on making a good decision. We welcome any remarks on the operation of device.

Team

ESTYMA electronics

1.1 Introduction

VIDE GSM communication module is a multifunctional device designed for remote access to the information of module sensors and controller of hot water boiler by means of GSM network.

The module is equipped with two slots of temperature sensors, two slots for contact input and output and CAN interface. Configuration, user-friendly panel makes it possible to set SMS notices about important changes in the operation of sensors, such as:

- exceeding the range of room temperature allowed
- alarm when the input contact is closed or open, used for giving notice about the opening/shutting of doors, gates, garages.

Contact output (binary), makes the remote activation/disconnection of any electrical equipment possible. Using mobile, you can also read out current parameters of module as well as make changes in settings.

By means of CAN interface, the Vide GSM module can remotely control the operation of heating controller of IGNEO line, and make changes in the operation modes of boiler, burner and 16 central heating circuits at most. The GSM communication system makes it possible to make several changes in the controller operation and to read out current parameters displayed on your mobile by sending SMS.

1.2 Elements of the set

1. Vide GSM module
2. 2x sensor of room temperature CT2a / 2.4
3. Power unit

1.3 Precautions

- Before you start to operate the device, read the whole attached user`s guide carefully.
- Keep the user`s guide and refer to it in case you operate the device in future.
- Observe all the rules and warnings included in the user`s guide.
- Make sure the device is not damaged in any way. In case of doubt, do not operate the device and contact the supplier.
- In case of doubt concerning a safe operation of device, contact the supplier.
- Special attention should be paid to warning signs, housing or packaging of device.
- Operate the device according to its intended use.
- The device is not a toy, children should be prohibited from playing with it.
- On no account can children play with any part of the packaging of this device.
- Children should be prevented from accessing small parts, for example, clamping screws, pins. These elements can be found on the equipment of device supplied and in case of swallowing they can lead to the choking of child.
- No mechanical or electrical modifications can be made in the device. Such modifications can cause the wrong operation of device, incompatible with standards or they can influence the operation of device in a negative way.
- No objects should be put into the device through gaps (for example ventilation gaps). This can cause short circuit, fire or damage to the device.
- Take care that no water, moisture, dust and dirt gets into the device. This can cause short circuit, electrical shock, fire or damage to the device.
- Make sure the device is ventilated properly, do not cover ventilation holes and provide a free flow of air around it.
- The device should be installed inside the rooms.
- Make sure the device is not exposed to impacts and vibrations.
- Connecting the device, make sure that electric parameters of power supply network are within the operation range of device.
- Any connections must be compatible with the installation electrical wiring diagram and with national, or local regulations relating to electrical connections.
- There is no part in this device that can be replaced by the user himself. All service operations except cleaning and setting up the function, should be carried out by the authorized service staff.
- Before starting any maintenance operations, you must absolutely disconnect the device from power supply.
- No benzene, solvents or other chemical agents, which can damage the housing of device can be used for cleaning the device. A soft cloth is recommended for this purpose.

1 General information

1. General information

- * Any connections must be compatible with the assembly electrical wiring diagram of installation and national or local regulations as regards electrical connections.
- * There is no part in this device, which the user can replace himself. All service operations except cleaning or setting up the function, should be carried out only by the authorized service staff.
- * Before starting any maintenance operations, it is absolutely necessary to disconnect the device from power supply.
- * No benzene, solvents or other chemical agents which can damage the housing of device can be used. A soft cloth for cleaning is recommended.

1.4 Procedure with the used equipment

The electronic device was made from materials, which are fit for recycling only in part. That is why, the device must be returned to the recovery and recycling place of electrical and electronic equipment or handed over to the manufacturer. The device must not be disposed of with other household rubbish.



2 Connection

2.1 Electrical wiring

Before you start to operate the device, read the whole enclosed user`s guide carefully.

The person who makes the installation must have technical experience. Connections made with the use of copper cable should be adapted to the operation at a temperature of up to +75°C.

All the connections must be compatible with the installation electrical wiring diagram and national or local regulations about electrical connections.

2.2 Location

The device is intended for the installation only in enclosed spaces. After choosing the place of installation, make sure it meets the following conditions:

1. The installation place must be free of excessive moisture and flammable vapours or vapours causing corrosion.
2. The installation of device cannot be made near electrical equipment of high power, electrical machines or welding equipment.
3. In the place of installation the temperature of ambient cannot exceed 60°C and it should not be lower than 0°C. Humidity should range from 5% to 95% without condensation.

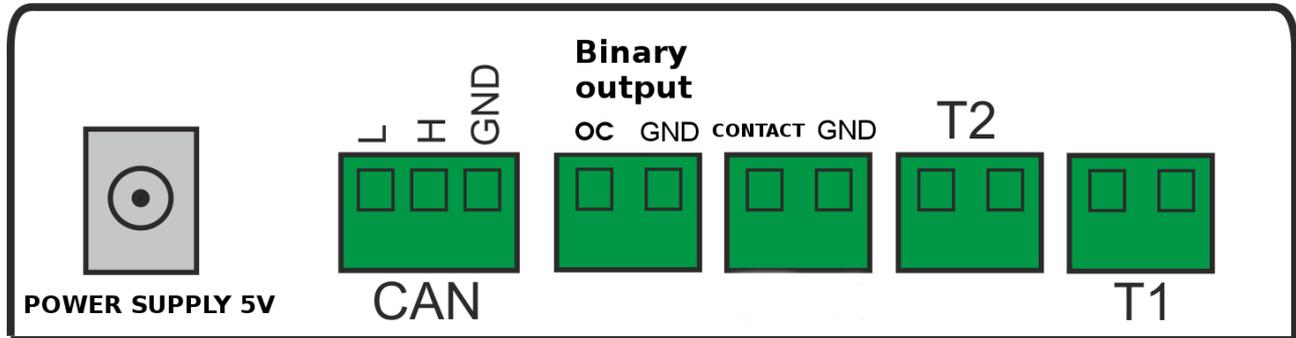
2.3 Installation

The module should be mounted on the wall in the room selected. There should be a free air circulation in the place of installation and the place should be away from the heating sources, for example, electronic equipment, fireplace, heater or direct solation. It is recommended that the module be mounted at a height not less than 1,5 m over the floor.



2 Connection

2.4 Description of connections



DESCRIPTION OF OUTLETS	
Name	Description
Power supply 5V	Power (connect the power unit 5V/1.2A)
CAN	Communication interface CAN for connecting the controller of boiler/burner
Binary output	Binary output of open collector type Current efficiency 100mA.
Contact	Contact input of open/closed type
T2	Sensor of room temperature T2
T1	Sensor of room temperature T1

3 Review of functions

3.1 Control of binary output

PIN 1 x;

x – binary output condition [0 lub 1], PIN – number assigned in GSM settings.

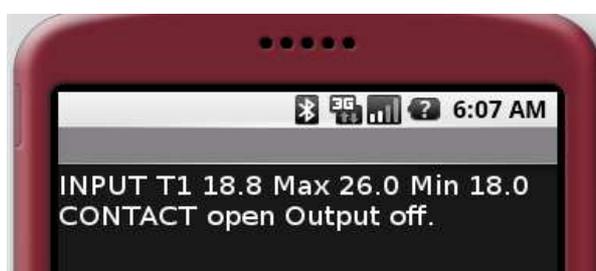


3.2 Information about input condition

Query command about the input condition T1, T2, STYK module VIDE GSM:



Example of reply:



3 Review of functions

3.3 Information about the controller of boiler

Using the mobile you can easily read out or change the parameters of heating controller from any place.



3.3.1 Commands of queries about the parameters of boiler controller

Command	Description
Boiler?	<p>Query about the parameters of boiler Tb – measured temperature of oiler Tbc – calculated temperature of boiler Tbsm – temperature of boiler set in the continuous mode (manual) Controller – condition of controller (turned ON, turned OFF) Burner – condition of burner (TURNED OFF, MODULATION) Boiler mode – mode of boiler operation (MANUAL, AUTO) Permission – permission for the operation of burner (NO/YES)</p> <p>Example of replies: BOILER: Tb 65.5, Tbc 70, Tbsm 65, Controller ON, Burner MODULATION, Boiler mode AUTO, Permission NO</p>
Water1? Water2?	<p>Query about the parameters of hot, tap water circuits Thw – mesured temperature of hot water Thwsc – temperature of comfort hot water set Thwse – temperature of hot water set on economy Program – program of hot water (TIME, MANUAL, OFF)</p> <p>Example of replies: (enquiry: Water1?)</p>

	WATER 1: Thw 44, Thwsc 45, Thwse 30, Program MANUAL
Solar?	<p>Query about the parameters of solar installation</p> <p>Example of replies:</p> <p>SOLAR: Power 2500, T1 80.5, T2 100.0, T3 0.0, T4 0.0</p>
Heating1? Heating2? .. Heating16?	<p>Query about the parameters of central heating circuits</p> <p>Explanation of parameters: Tr – room temperature Trcs – comfort set Tres – economical set Program – program of heating (TIME, PERMAMENT, OFF, ECON)</p> <p>Example of replies (query: Heating3?)</p> <p>HEATING 3: Tr 23.0, Trcs 22.0, Tres, 19.0, Program PERMAMENT</p>
Estyma?	<p>Command of query about input condition T1, T2, STYK:</p> <p>Example of replies:</p> <p>INPUT T1 18.8 Max 26.0 Min 18.0 INPUT. Contact OPEN. Output turned off</p>

3.3.2 Commands of changes of boiler controller settings

Module	Command	Description
Boiler:	Tbsm	<p>Set temperature of boiler in manual mode</p> <p>Range of setting: [40-80]</p> <p>Example of command: <i>1111 Boiler:Tbsm=65;</i></p>
	Bmode	<p>Mode of boiler operation</p> <p>Range of setting: [auto = 1, manual = 0]</p> <p>Example of command: <i>1111 Boiler:Bmode=1;</i></p>
	Ctrl	<p>ON/OFF of controller</p> <p>Range of setting: [ON = 1, OFF = 0]</p> <p>Example of command: <i>1111 Boiler:Ctrl=1;</i></p>
	Burner	<p>Consent for the operation of burner</p> <p>Range of setting: [consent = 1, lack = 0]</p>

		Example of command: 1111 Boiler:Burner=1;
		Examples of combined commands for Boiler module: 1111 Boiler:Tbsm=70;Ctrl=1; 1111 Boiler:Tbsm=65;Bmode=1;Ctrl=1;Burner=1; <i>Note: Arbitrary combination of commands from Boiler group possible.</i>
Water1: Water2:	HWprog	Program CWU circuit. 1 and circuit 2 Range of setting: [0 - time, 1 - permanent, 2 - turned off] Example of command: 1111 Water1:HWprog=1;
Heating1: Heating2: .. Heating16:	CHprog	Program CO1-CO16 Range of setting: [0 - temporary, 1 - permanent, 2 - turned off, 3 - economical] Example of command: 1111 Heating1:CHprog=3;
	Trcs	Set, comfort room temperature CO1-CO16 Range of setting: [15.0-30.0] Example of command: 1111 Heating1:Trcs=24.0;
	Tres	Set, economical room temperature CO1-CO16 Range of setting: [10.0-25.0] Example of command: 1111 Heating1:Tres=20.0;
		Examples of combined commands for Heating module: 1111 Heating1:CHprog=3;Trcs=24.0; 1111 Heating1:CHprog=3;Trcs=24.0;Tres=20.0; 1111 Heating16:CHprog=1;Trcs=21.0; 1111 Heating16:CHprog=1;Trcs=21.0;Tres=18.0; <i>Note: Possible arbitrary combination of commands from Heating group within a particular number of circuit.</i>

4 Main display

On the main display you will find the information about the condition of VIDE GSM module, its sensor inputs T1, T2 and contact input and about binary output condition. Your own names can be given to the inputs in menu 5.1. Sensors page 13.

5 Main menu

5.1 Sensors

SENSORS	
Name	Description
Name of input T1	Allows you to give your own name of the input of temperature measurement T1
Min. temperature T1	Allows you to set lower temperature limit at input T1. If the temperature measured by sensor T1 drops below the value set, the alarm can be triggered. Additionally, set the parameters: input of temp. T1 active on YES.
Max. temperature T1	Allows you to set upper temperature limit at input T1. If the temperature measured by the sensor T1 increases above the value set, the alarm can be triggered. Additionally, set the parameters: input of temp. T1 active on YES.
Input of temp. T1 active	Allows you to choose whether the input t1 is active. Activation means that the temperature will be monitored from this input and compared to values Min. Temp. T1 and Max. Temp. T1. Exceeding this threshold will cause the sending of alarm SMS.
Name of input T2	Allows you to give your own name to the input of temperature measurement T2.
Min. temperature T2	Allows you to set the lower temperature limit at input T2. If the temperature measured by sensor T2 drops below the value set, the alarm can be triggered. Additionally, set the parameters: input of temp. T2 active on YES.
Max. temperature T2	Allows you to set the upper temperature limit at input T2. If the temperature measured by sensor T2 increases above the value set, the alarm can be triggered. Additionally, set the parameters: Input of temp. T2 active on YES.
Input of temp. T2 active	Allows you to choose whether input T2 is active. Activation means that the temperature from this input will be monitored and compared to values Min.temp. T2 and Max. Temp. T2. Exceeding this threshold will cause the sending of alarm SMS
Name of contact input	Allows you to give your own name to contact input
Alarm in contacts when	Allows you to choose when the alarm of

5 Main menu

	contact input is triggered. Alarm with closed or open contact is possible.
Contact input active	
Correction T1	Allows you to correct the temperature readout from input T1 by the value set ($\pm 3^{\circ}\text{C}$).
Correction T2	Allows you to correct the temperature readout from input T2 by the value set ($\pm 3^{\circ}\text{C}$).

5.2 Binary output

BINARY OUTPUT	
Name	Description
Control	<p>SMS – remote change of contact</p> <p>Alarm T1 – after exceeding the permissible temperature range in the sensor T1, the contact changes into active or inactive (indicate in the logics please)</p> <p>Alarm T2 – after exceeding the permissible temperature range in the sensor T2, the contact changes into active or inactive (indicate in the logics please)</p> <p>Alarm T1/T2 – after exceeding the permissible temperature range by any sensor of temperature, the contact changes into active or inactive (indicate in the logics please)</p>
Logics	<p>Straight – from inactive into active</p> <p>Denied – from active into inactive</p>

5.3 GSM settings

GSM SETTINGS	
Name	Description
PIN of authorization	Here you should give your PIN code for the authorization of GSM connection
Tel. 1	Telephone number1 to which alarm notices will be sent
Telephone 1 active	Turning on/off the notifications to the telephone number 1 indicated
Tel. 2	Telephone number 2 to which alarm notifications will be sent
Telephone 2 active	Turning on/off the notifications to the telephone number 2 indicated.

* The Vide GSM module has been equipped with Li-ion battery with the capacity of 600 mah. In case the external power supply is lost, the module is capable to operate on its own up to 4 hours. Change of power supply mode always results in sending the SMS alarm to active telephone numbers.

5.4 Settings

SETTINGS	
Name	Description
Operation with controller	Turning on/off of connection with controller
Contrast of display	Change of display contrast

5.5 Notices

NOTICES	
Name	Description
Active notice	Allows you to set whether SMS notices about active alarms are to be sent. You should also remember to set active telephone numbers to which notices will be sent.
Time of another alarm	Allows you to set the frequency of time SMS with communicate about the alarm will be sent.

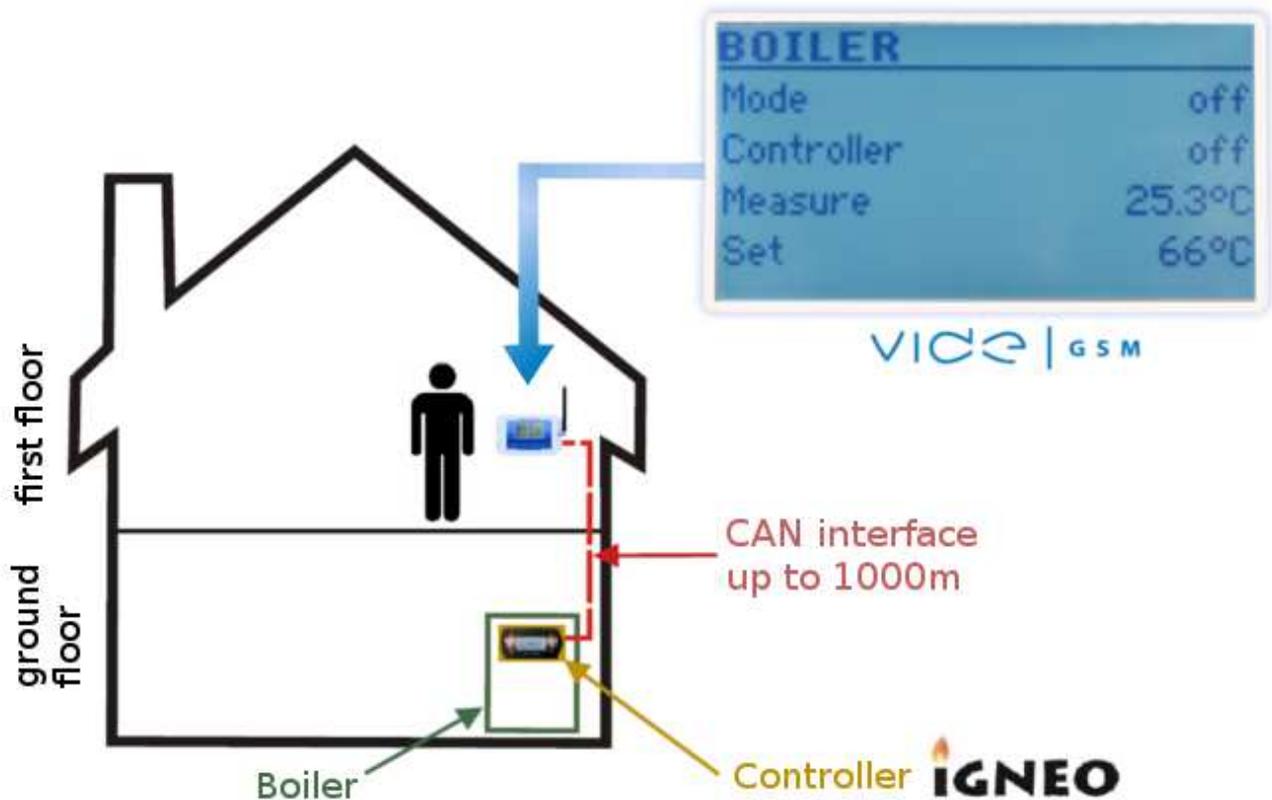
5 Main menu

5.6 Language

Polish or English at your discretion.

5.7 Remote control panel

By connecting CAN bus, vide GSM module can supervise the operation of boilers and make changes in settings from each place at home.



REOMOTE CONTROL PANEL	
Name	Description
Boiler	Change of the operation mode into automatic or continuous, turning on.turning off the controller and preview of current temperature.
Burner	Turning on/turning off the burner, preview of burner condition.
CO1...16 circuit (central heating)	Comfort/economical program- determining temperature Program – change of circuit operation

	program. One by one: temporary, permanent, turned off, economical Measured- preview of measured temperature
CWU circuit (hot tap water)	Comfort/economical program – fixing temperature Program –change of circuit operation program One by one: temporal, permanent, turned off, economical Measured – preview of measured temperature
Buffer	Information about the upper/lower set temperature of buffer, and temperature measured.
Solars	Information about the condition of solar
Alarms	Information about the number of alarms in the boiler controller

6 Specification

Power supply	5v/1.2A
Ambient temperature allowed	0-60°C
Dimensions (length x height x width)	145mm x 94mm x 32mm
Weight of controller	215g

6 Specification



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