OPERATION MANUAL

UMI-1

Universal internet module UMI-I

Description.

Universally applicable Internet unit is a device that allows its user to control the boiler operation remotely through the Internet or local network. The unit enables to control and monitor boiler room operation by any web browser. Boiler room operation can be readily accessed from any location. The user has the option of controlling the condition of all the parameters of the boiler installation on his home computer screen and to change them if needed. When a failure (e.g. of boiler temperature sensor) occurs, a text can be sent to the user by e-mail, and when the GSM module is installed - also a message to his mobile. It is possible to introduce user's own settings of alerts. In addition to all the sensors temperature preview, activity history of all the parameters of the boiler regulator are also available.

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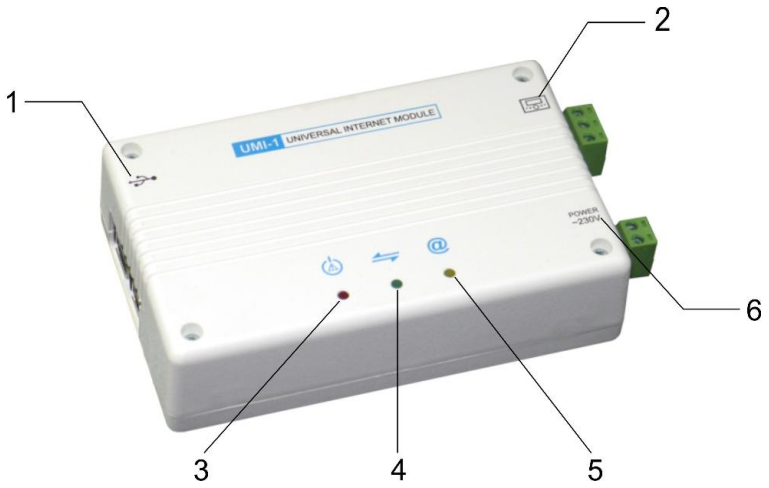


1. USB interface for connecting the card of access to a network.
2. Interface for connecting the regulator.
3. Power supply and alarm indicator.
4. Regulator connection indicator.
5. Network connection indicator.
6. Power supply connector.

1 Connection and startup.

UMI-I allows remote control of heating device through the Internet. To set it up properly, few connections are required:

1. Heating device regulator cable (D+, D-, Ground);

2. At least one Internet connection medium:

(a) Ethernet wired computer network cable;
(b) WiFi wireless computer network module;
(c) GSM/3G cellular modem;

3. 230V power supply cable (L, N).

After all other connections setup put power plug into 230V socket powering up the device. Few seconds later it shall light up LEDs on top panel, indicating state as follows:

symbol	on	blink	off
	device operational	no number or type / device failure	no power
	regulator connected	regulator communication	regulator not connected
@	Internet connected	Internet communication	Internet not connected

2 Heating device regulator communication.

Device is shipped with configuration that allows connection with heating device regulator using following settings (customized in service menu)

– data connection: Modbus RTU

– Modbus device number: 1 lub 113

– Modbus device speed: 38400 lub 115200

– Modbus frame format: 8N2

– Modbus access level: serwis

3 Internet connection.

If the UMI-1 has a wireless communication module (WiFi), we can configure it using any device equipped with WiFi and a web browser (e.g. smartphone, laptop, tablet). When enabled, UMI-1 provides a network called "umi1" to which you need to connect and launch a web browser (Chrome, Firefox), then enter **http://umi1.wf** or **http://172.24.241.225** in the address bar. The device configuration page should appear, on which you should enter the following data:

- controller type and UMI-1 serial number - with stickers on the housings
- e-mail address to which the access password will be sent
- the name and password of your WiFi network used to connect to the internet

Please note that once the UMI-1 WiFi network settings are confirmed, it will attempt to connect to it, disabling the "umi1" configuration network. It can be restored by resetting the device to factory settings by holding down the button for 8 seconds on the housing.

The device can be connected to the Internet using a wired (Ethernet) network. If it has an automatic IP address allocation system (DHCP), after plugging in the cable, the device will recognize it automatically and after several, several dozen in seconds it will signal internet connectivity with a diode marked '@'. If DHCP does not work, you must first connect the machine to your computer with an Ethernet cable for configuration. Then you need to change the IP address on the computer to which you connected the device as follows (on the example of Windows 7): **Start** - **Control panel** - **Network connections** - **Network center and sharing** - **View network connections.** Right-click the wired network connection, and then select: **Properties** - **Network** - **TCP** / I**Pv4** - Properties. If the option Use the following IP address is selected, write the numbers from the fields: IP address, Subnet mask and Default gateway needed to restore after the device configuration is complete. The settings should be changed to the following:

IP address	172.23.241.226
Network mask	255.255.255.252
Default gateway	(empty)

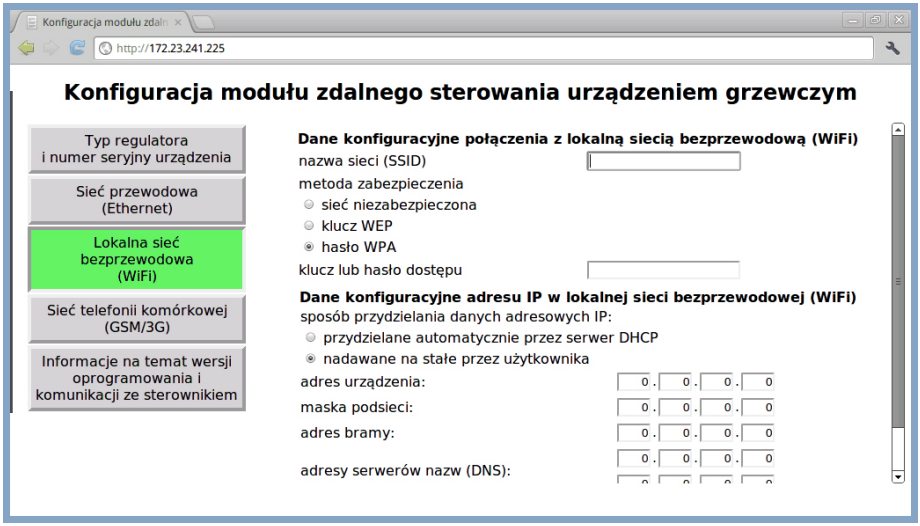
After confirming the changes, launch the web browser (Firefox, Chrome) and enter: **http://172.23.241.225** in the address bar

On the device's website launched in this way, enter data regarding the Internet connection (WiFi, GSM / 3G, wired without DHCP) as well as the serial number and type of the controller - if the supplier has not done so. After configuration, close the browser window and restore the computer's IP settings to their previous state.

4. Access to the remote control system.

When the device connects to the regulator and the Internet (the red light will be on, yellow and green will flash and remain lit), a message with the username and access password will be sent to the e-mail address provided. If after a few minutes you cannot see it in the mailbox, please check if it hasn't been left automatically directed to the junk mail folder (SPAM). The data provided in the message should be used to log in at **http://www.umi1.eu**

A remote control system for the heating device will be available there.



www.wizjotronika.pl andrzej@wizjotronika.pl +48 514 033 699

Technical data:

Power Supply:	230 V
Maximum power consumption:	10W
Data transmission to regulator:	RS485, Modbus
Networking enabled:	Ethernet, connector RJ 45
	Wi-Fi
	GSM

DECLARATION OF CONFORMITY

Manufacturer: Przedsiębiorstwo Wielobranżowe KEY
Zdzisław Kluczek
11-200 Bartoszyce, ul. Bohaterów Warszawy 67

hereby declares that the product:

UMI-1

the essential requirements of

EC directive on electrical equipment for use within certain voltage limits 2014/35 / UE (LDV) from 02/26/2014 and the

EC Electromagnetic Compatibility Directive 2014/30 / UE equivalent (EMC) from 26.02.2016.

mgr inż. Zdzisław Kluczek
właściciel

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This appliance is marked according to the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

The symbol on the product, or the documents accompanying the product, indicates that his appliance may not be treated as household waste.
The appliance shall be handed over to the applicable collection point for used up electrical and electronic equipment for recycling purpose.

Ultimate disposal of the appliance shall follow according to applicable local regulations on waste utilization. For more information about disposal, utilization and recycling please contact your local authorities, household waste disposal service or the shop where you purchased the product.

Manufacturer: P.W. KEY
11-200 Bartoszyce, ul. Bohaterów Warszawy 67
tel. (89) 763 50 50, fax. (89) 763 50 51
www.pwkey.eu e-mail: pwkey@onet.pl