

IGNIS Beta TMK Września

Microprocessor-based temperature regulator, controller of three-way valve actuator.

APPLICATION

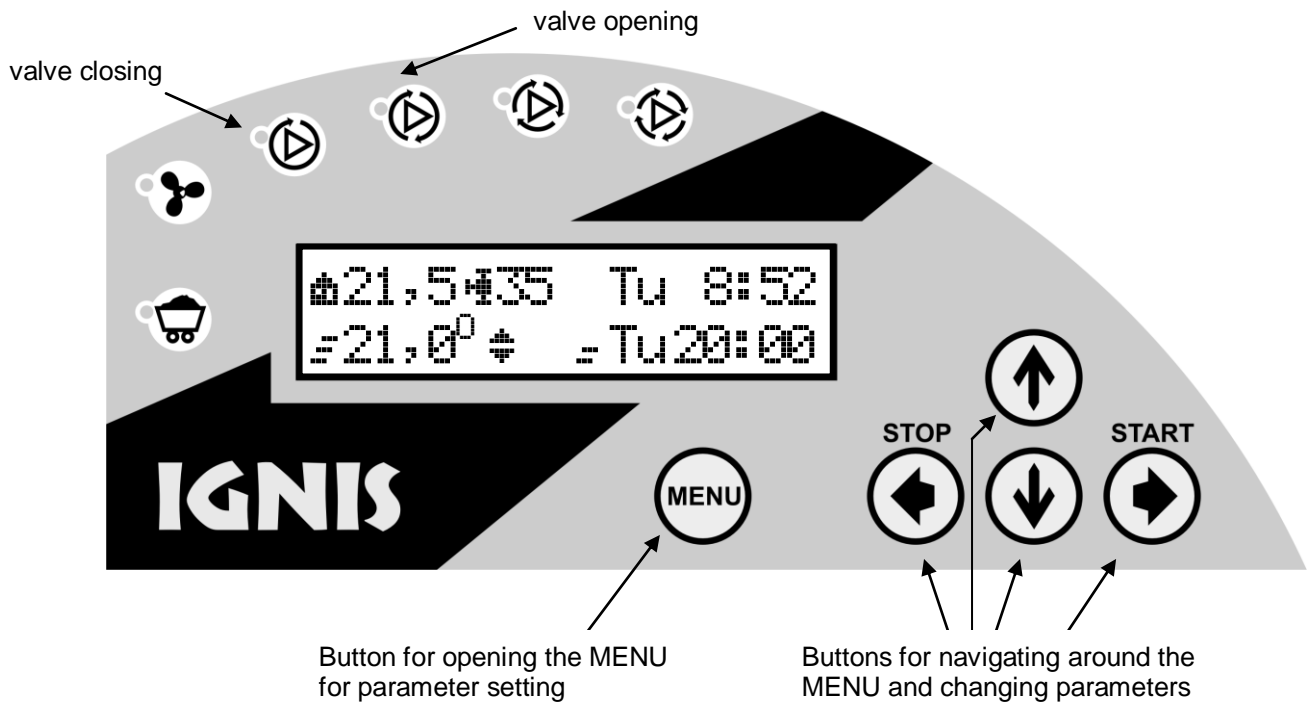
The device is designed for automatically controlling the operation of the three-way valve actuator. The controller maintains room temperature at three different levels called zones:

☰ – day zone, ☷ – night zone, ☶ – economy zone.

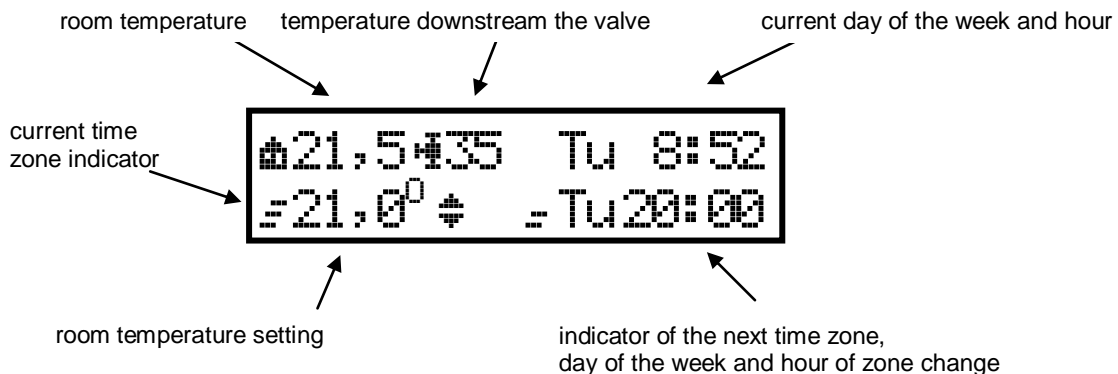
For day and night zones temperature regulated by the valve is maintained within limits set by the user. In the economy zone, the minimum temperature downstream the valve is reduced to the set economy temperature.

FRONT PANEL DESCRIPTION

Indicators of device operation:



MAIN SCREEN DESCRIPTION



CHANGE OF SETTINGS

Blinking arrows: \leftarrow , \rightarrow , \uparrow , \downarrow and $\#$ indicate which buttons can be used for navigating around the MENU and for changing settings.

The \uparrow and \downarrow buttons are dedicated to changing parameter values, and to navigating around the MENU.

The \uparrow and \downarrow buttons are only dedicated to navigating around the MENU.

By pressing the MENU button, the user can go back to the previous screen until returning to the MAIN SCREEN. If any changes are made, the user is requested to confirm whether the changes should be saved.

If no button is pressed for 1 minute, the controller returns to the MAIN SCREEN without saving changes.

In the main screen, the user can perform temporary adjustment of ROOM TEMPERATURE. The change will hold until passing to a different time zone displayed on the screen.

The user is able to change other settings by pressing the MENU button. After pressing MENU the following screen appears:

a) room temperature settings for different time zones

after pressing the \downarrow button the user can set the room temperature for each of the zones:

- E - day zone
- = - night zone
- - - economy zone

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a) ROOM TEMP.
   EDITION
  
```

```

TEMP: 21.0
      18.0 - 17.0
  
```

b) TIME PROGRAMMES

setting of time zones for each hour of the day of the week

(a detailed description is included in a separate subsection)

YES/NO – activate/deactivate time programme operation

c) minimum temperature maintained by the three-way valve
(if the room temperature is higher than expected)

```

b) TIME PROGR.
   YES* EDITION
  
```

```

c) VALUE MIN
   TEMP: 25
  
```

d) maximum temperature maintained by the three-way valve

(if the room temperature is lower than expected)

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d) VALUE MAX
   TEMP: 40
  
```

e) interval between successive operations of the three-way valve.

The duration of operation is a fixed value of 1 s.

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e) VALUE
   INTERVAL TIME: 15s
  
```

f) delay of automatic change of valve temperature depending on the change in room temperature.

If the value is too small, there will be rapid changes in temperature downstream the valve. If the value is too large, there will be considerable deviations of room temperature from the set level.

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f) RESPONSE TIME
   ROOM TEMP.: 10m
  
```

g) alarm temperature of the furnace.

When the temperature is exceeded, the three-way valve will fully open.

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g) FURNACE ALARM
   TEMP: 85
  
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h) \uparrow button – hour setting screen.

\downarrow button – change of day of the week.

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h) TIME DAY
   12:30* Fr
  
```

\downarrow and \uparrow buttons – increasing and decreasing of the hour/minute value (the value which is to be changed is blinking)

\leftarrow and \rightarrow buttons – passing from the option of hour setting to minute setting and vice versa.

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HOUR:MINUTES
12:30
  
```

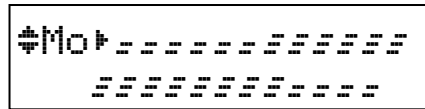
i) restoration of factory settings.

The controller has a functionality for restoring factory settings. After the button is pressed, the user is requested to confirm.

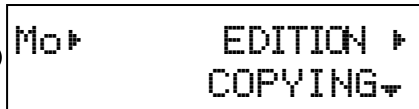


TIME PROGRAMMES

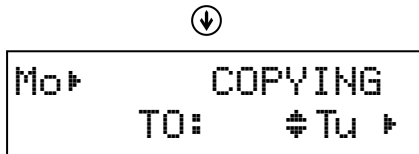
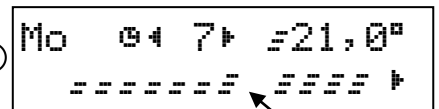
- selection of day of the week
- change day of the week



- edition of selected day
- copying to another day of the week



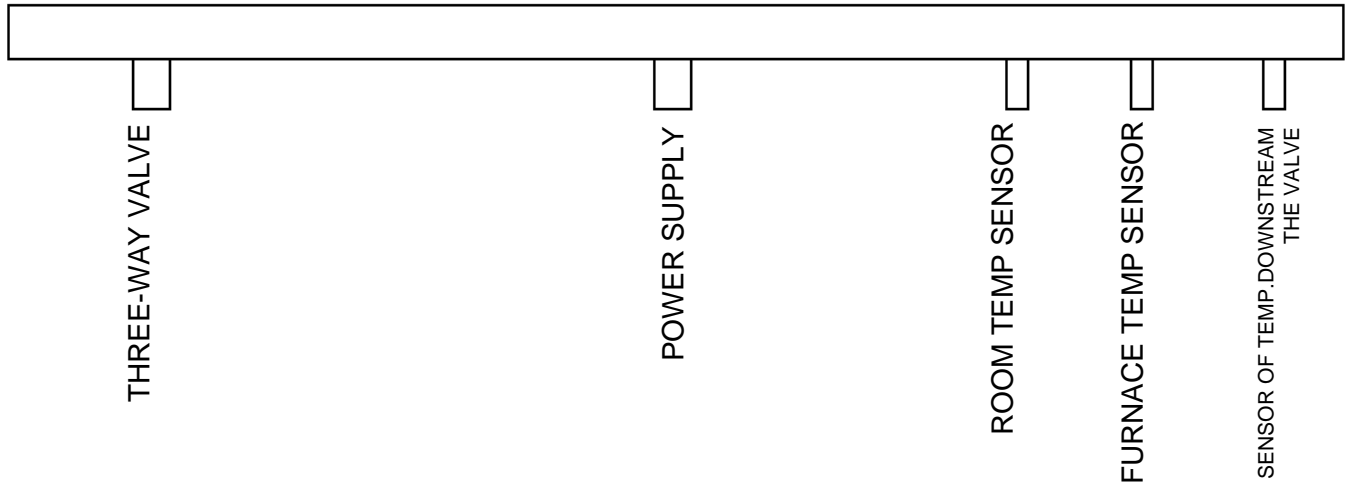
- change of hour
- change of zone



Holding the button or the button switches between zone copying and regular cursor movement.

- confirmation of copying
- change of day to which settings will be copied

SEQUENCE OF CABLE CONNECTIONS



THREE-WAY VALVE: brown – closing, black – opening, grey – N.

WARRANTY

TMK warrants that the IGNIS boiler controller will be fit for the purpose for which such goods are ordinarily intended. TMK also warrants all equipment of its manufacture to be free from defects in materials or workmanship for a period of THREE YEARS from the date of purchase, but not more than FOUR YEARS from the date of manufacture.

CONDITIONS OF WARRANTY

TMK sp.j. warrants the controller, providing that the information contained in this manual and the general rules of operation of electronic devices are observed at all times. TMK sp.j. warrants the workmanship and reliable operation of the IGNIS boiler controller. Should the boiler controller develop a fault or malfunction due to poor workmanship, TMK sp.j. shall repair or replace the faulty boiler controller with a functioning one within 14 working days of receiving the said faulty controller (either in person or via mail). The warranty does not cover any breakdown, malfunction or damage caused by negligence, including, but not limited to, exposure to excessive humidity, faulty fitting, or failure to adhere to the universally accepted rules of operation of electronic devices.

SOLD (day/month/year):

MANUFACTURED BY:

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www.tmk.com.pl

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salesman's signature and official seal

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MANUFACTURED (day/month/year)