



Instructions for replacing the analog panel with Digital PID Control

MANUAL FOR SMOKERS: UW-70, UW-150, UWS-70, UWS-150

The sections included in this manual

- I. Safety requirements and precautions
- II. Terms of use
- III. Tools needed
- IV. Composition of the set
- V. Assembly and installation
- VI. Construction of the digital control panel
- VII. Operation of the electronic control panel
- VIII. Warranty card

***Assembly and installation must be carried out
by a specialised repair shop
or by a qualified electrician.***

Manufacturer of the food smokers with smoke generator

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Before using the device,
read the instructions.



Dear user,

Thank you for choosing the Borniak device.

I. Safety requirements and precautions

NOTE - ELECTRICITY

- Device should be powered from the mains with an alternating current of 220 - 240V.
- Internal installation must have a 16A fuse.
- Device must be unconditionally connected to the socket outlet with earthing contact.
- If the power cord or plug is damaged, to avoid danger, it should be replaced at the manufacturer, or by a specialised repair shop, or by a qualified electrician.
- Before starting cleaning the device, disconnect the power supply.
- Smoke generator can only be connected to the power supply after it has been installed in the device adapted to its assembly.
- If you use an electric extension cord, its current load should be at least as much as the rated load of the device.
- If you use an electric extension cord, make sure it has an efficient earthing contact (ground).
- Lay the power cords in such a way that they are not crushed, prevent it against pulling or stumbling over by children.
- If you use electric extension cords, they must be adapted for outdoor use and should be labelled "for outdoor use".

NOTE - LOCATION

- Power cords of the device should be arranged in such a way that they are not in contact with hot parts of the housing.
- The smoker is intended for outdoor use but it must not be exposed to atmospheric precipitation and strong gusts of wind. The optimal solution is to work in roofed, sheltered and, at the same time, ventilated places.
- Do not use the device in closed rooms, in case of use under a roof ensure sufficient ventilation.
- Do not use the device near gasoline or other flammable liquids, gases or places where flammable vapours may be present.
- Do not use the device near flammable objects.
- Do not use the device when it comes in contact with parts, objects made of materials not resistant to high temperature.
- It is recommended to put an extinguisher near the device. Information on the proper size and type of the extinguisher can be obtained from the local authorities.
- Do not connect the device until it has been fully assembled.
- Do not move the device before removing all moving objects inside the smoker and the smoke generator.
- Do not connect the device to the chimney, ventilation grille or other wires that may cause forced air draft.

⚠ ATTENTION - TEMPERATURE

- When using parts, they can get very hot. There is a risk of burns when carelessly handled.
- Do not touch hot surfaces, use suitable gloves.
- Children and pets must not approach the device unattended, there may be a risk of burns.
- Before cleaning the device, allow the device to cool down.
- Do not use gasoline, kerosene, spirits or other flammable substances to clean the device.

i PRECAUTIONS

- Do not allow the device to be flooded with water (e.g. during cleaning or by leaving the device uncovered outside during atmospheric precipitation).
- The smoke generator can only work with smoking unit recommended by the manufacturer.
- Using accessories not recommended by the manufacturer may result in injury or damage to the device for which the manufacturer is not responsible.
- Be careful with sharp edges when assembling and disassembling the device.
- Do not use the device contrary to its intended use.
- The device is intended for home use.
- Do not leave the device switched on after finishing smoking.
- The device should be inaccessible to animals.
- Do not allow children to use the device without strict surveillance and care.
- This device is not intended for use by persons (including children) with limited physical, sensory, or mental capabilities, or insufficient knowledge and experience.
- Children should not have access to the device.
- Do not use the device contrary to its intended use.
- The devices require strict surveillance during use.



*Please read the above notes and tips,
it will ensure safe and comfortable work
with your new device.*

Thank you, Borniak.

II. Terms of use

- Do not use the smoker as an oven (do not use high temperatures for a long time).
- Do not leave the device unattended.
- Do not exceed the maximum temperature.
- Do not use damaged electric cables.
- Do not use the smoker during rain, strong wind or storm.
- Do not use the smoker near flammable substances.
- It is not recommended to wear loose clothing or untied hair.
- Do not move the device during operation.
- Do not use in closed rooms, only for outdoor use.
- Do not put the device in a place accessible to children or animals.
- Do not touch hot components to avoid burns, it is recommended to use gloves protecting against high temperature.
- Do not use the packaging to cover the device.
- It is mandatory to connect the device to a grounded electrical outlet, an extension cord.
- Protect against rain and water access.
- After each use, switch off the device from mains / power supply if it is not used.
- Thoroughly clean the smoker after each use.
- Do not cover or put anything on it when the device is in use.
- Empty the bowl for ash and fat every 2 - 3 hours and fill it with fresh water.



*If you have questions or concerns about using
Borniak products, we encourage you to contact us.*

You can find contact information on the website www.borniak.pl

III. Tools needed

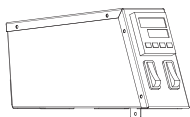
1. Drill
2. Drills in size: Ø2mm, Ø8mm and Ø12mm
3. Phillips screwdriver
4. Tool for cutting cables
5. Cable Stripping Tool
6. Glasses and protective gloves
7. Marking punch

You will need the right tools to start replacing the analog control panel with a digital panel in your smoker.

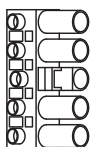
Also take care of protective clothing when modifying the device.

Assembly and installation must be carried out by a specialist repair shop or by a qualified electrician.

IV. Composition of the set



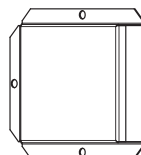
Digital control panel



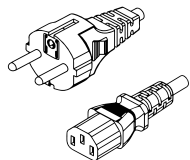
Connection socket



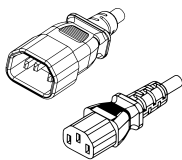
Temperature sensor



Slot cover



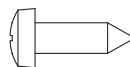
Power cable
EU* - C13



Power cable
C13 - C14



Screws 3,5 x 9,5
- 7 pcs.



Screws 3,5 x 16
- 4 pcs.

+ Paper template for drilling locations 2x (70, 150)



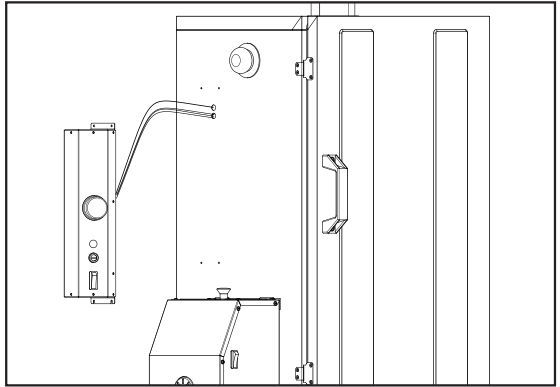
*Your new digital control panel will allow you to control the temperature inside the smoker more precisely.
Do you think your smoked food will be happy too?*

** the type of plugin depends on the country of distribution*

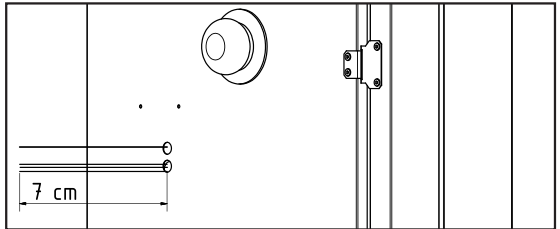
V. Assembly and installation

ANALOG SMOKER ADAPTATION

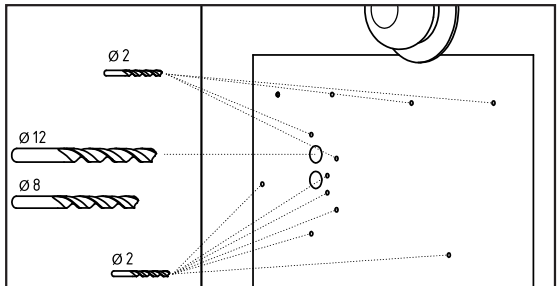
1. Disconnect the device from all power sources.
2. Remove the four screws securing the analog control panel.



3. Cut off the connection cables between the chamber and the analogue panel, with a distance of 7 cm from the cabinet.
4. Pull out the thermostat probe from the center of the smokehouse.

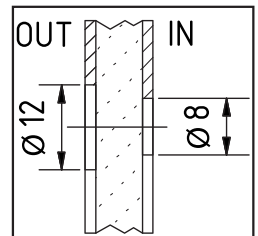


5. Place the attached paper template by screwing it with two screws to the side of the smoker's cabinet.
6. Mark the drill holes with a punch, it will minimize drill sliding over surface of the sheet.
7. Drill 11 holes size $\varnothing 2$ mm according to the attached template. (restrict the drill entry to 1cm, to avoid damaging the inner wall)
8. Drill (enlarge) the outer wall hole with (\varnothing) 12mm drill, through which the probe will be inserted.
9. Drill (enlarge) the inner wall hole with (\varnothing) 8mm drill, through which the probe protrudes.



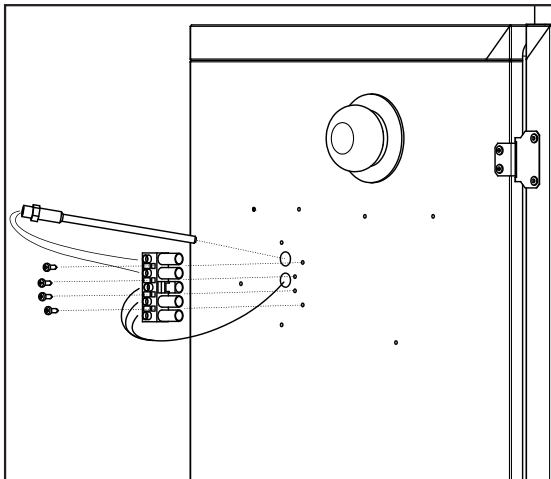
Supplementary drawing for subpoints 7 and 8.

"OUT" means the outer wall, "IN" means the inner wall.



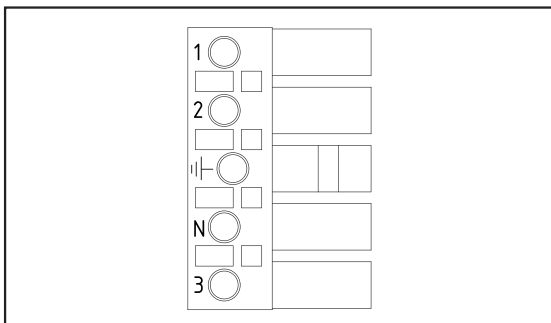
MOUNTING THE CONNECTOR FOR DIGITAL CONTROL PANEL

1. Place the temperature sensor in the hole and screw the sensor from inside with the M8 nut.
2. Screw the connection socket to the wall of the smoker (screws 3.5 x 16 - 4 pcs.).

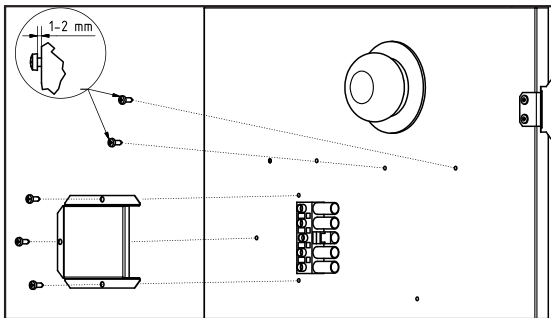


3. Isolate the ends of previously cut cables to approx. 7 mm - two red and one yellow-green.
4. Connect the cables to the socket according to the marking on the right figure:

- 1 - temperature sensor red +
- 2 - temperature sensor black -
- masa** - yellow-green
- N** - red
- 3** - red

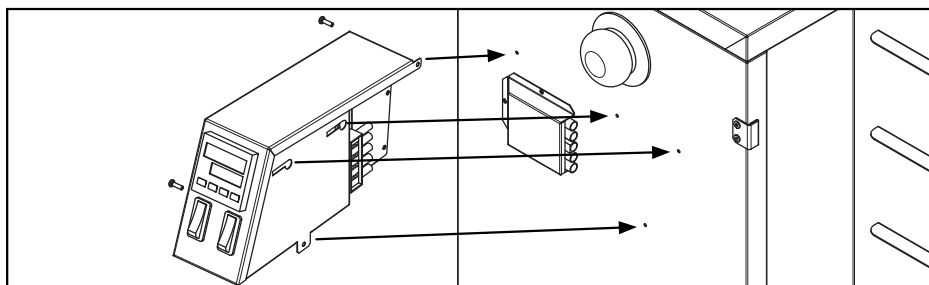
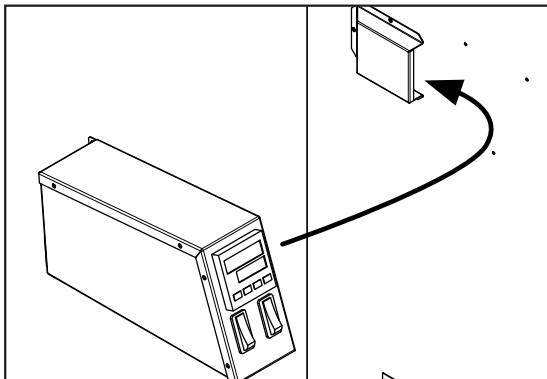


5. Screw in the cover of the connection socket (screws 3.5 x 9.5 - 3 pcs.) - lay the cables in it so that they do not protrude.
6. Tighten the two screws (3.5 x 16 screws - 2 pcs.) so that there is a clearance between the housing and the claw approx. 1 - 2 mm.

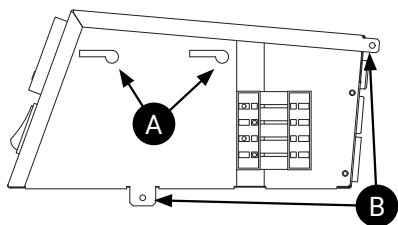


DIGITAL CONTROL PANEL INSTALLATION

7. Insert (slide in) the digital panel.
8. Secure the panel with two screws (in accordance with the auxiliary drawing and information below).



RIGHT



Embed electronic panel on the left side of the smoker having regard to protruding screws from the wall - they should enter into the corresponding holes (point. A) of the panel. Move the electronic panel to the left so that the connectors on the panel and the smoker are joined.

Finally, tighten the holding and locking screws in the appropriate places (point B).

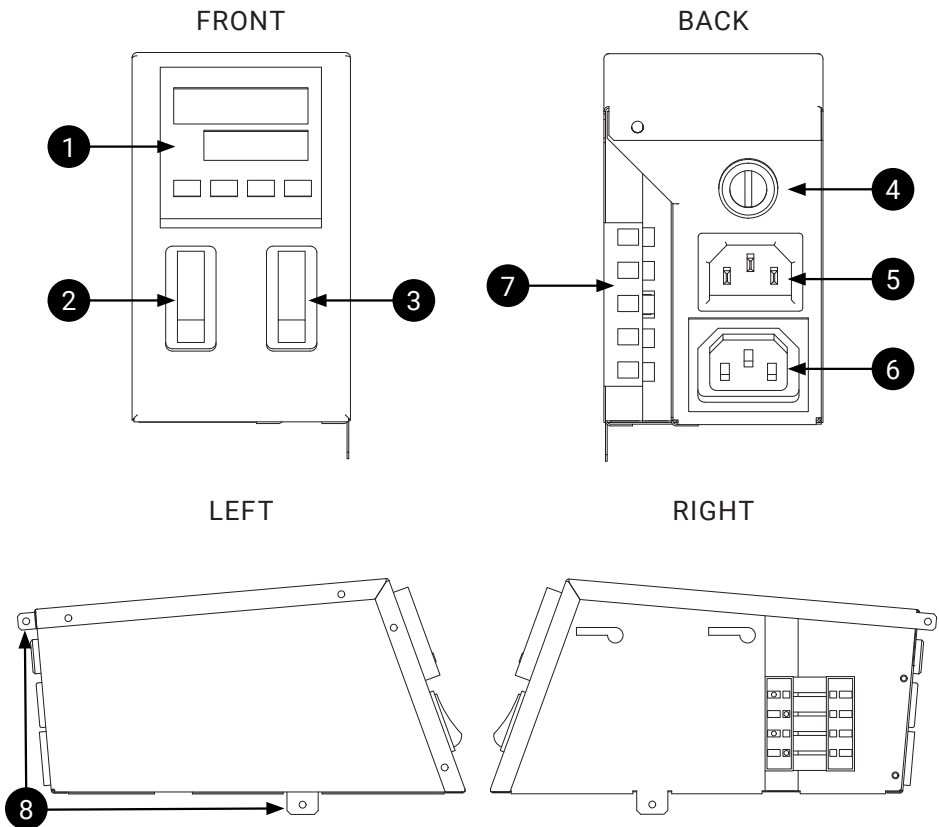
VI. Construction of the digital control panel

DIGITAL CONTROL PANEL

1. Display of the temperature controller
2. Smoker switch
3. Smoke generator switch
4. Fuse
5. Power outlet
6. Generator power outlet
7. Electrical connector
8. Holding and locking plates

The panel is used to control the temperature in the chamber. We start the smoker with the switch (2).

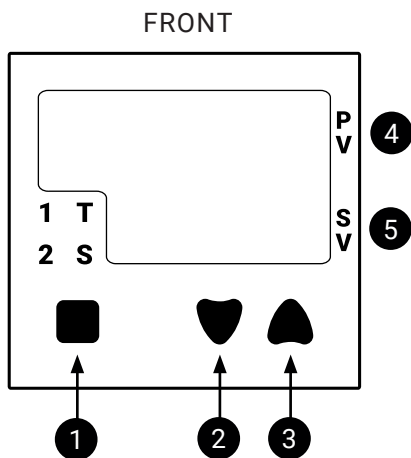
On the controller (1) - see p. 11 - set the desired temperature. With the connector (7), the controller controls the burner in the smoker. With the switch (3), we activate the smoke generator connected to the outlet (6).



VI. Operation of the electronic control panel

CONTROLLER DISPLAY

1. ■ confirmation button
2. ♥ value reduction / change button
3. ♠ value increase / change button
4. "PV" - current temperature in the chamber
5. "SV" - set temperature / frequency of the burner activation



Electronic temperature controller operates on the principle of reaching the desired temperature by cycling on and off the heating element. This provides a stable temperature.

The temperature is set by pressing two buttons.

■ + ♠ - Hold the square and the up arrow (inverted heart) to increase desired temperature.

■ + ♥ - Hold the square and the down arrow (heart) to reduce desired temperature.

Top display "PV" shows the current temperature in the chamber.

Bottom display "SV" shows the set temperature.

NOTES

- A temperature below the atmospheric temperature cannot be reached in the chamber.
- If you do not use the cold smoking adapter, the temperature in the chamber may rise up to 70°C depending on the smoker model and weather conditions. It is caused by the fact that the smoke generator, by burning smoke chips, generates heat which increases the temperature inside the device.
- When the set temperature is reached for the first time, it can be exceeded by 10 - 15%. This is not a malfunction of the controller.
- At higher temperatures, above 100°C, it may take longer to reach the set temperature because the heating process is inhibited.

VIII. Warranty card

This warranty is effective for 24 months from the date of purchase. The warranty as described herein shall only apply in the territory of the Republic of Poland.

TERMS OF WARRANTY:

1. ZUT BORNIAK guarantees the user efficient operation of the appliance provided its proper installation, maintenance and operation, in accordance with the guidelines of this MANUAL.
2. ZUT BORNIAK takes responsibility for manufacturer's defects (i.e. in material or workmanship) of the appliance for 24 months from the date of its selling.
3. The defects of products which shall arise during the warranty period will be removed in the time not longer than 30 days from the day of returning it to the manufacturer.
4. The warranty flows only to the Buyer, i.e. a natural person, who purchases a moveable item for a purpose different than conducting business activities or any professional activities. (Journal of Laws of 2002, No 141, item 1176).
5. The defective appliance must be returned with its standard accessories, in its original packaging.
6. When sending in your defective appliance for service, a valid Warranty Card, without any traces of changes or interference, must be included.
7. Damage resulting from events such as: lightning strike, power surge in power lines, mechanical impacts, fires, flooding or other uncontrollable events beyond the Seller's control, are not covered by this warranty.
8. The User shall deliver the defective product for service repair purposes at their own expense. After the repair, the appliance shall be returned to its owner at the Manufacturer's expense.
9. It is recommended to contact the Manufacturer before sending in the defective appliance.
10. While sending the appliance to the Manufacturer, the User must include their contact details, the return address, as well as a short description of the defect.
11. Liability of the Manufacturer is limited to the amount equal to the price of the defective product.
12. Damages and missing goods in the case of orders delivered by Poczta Polska or courier companies shall be dealt with only based on the report drawn up by the courier while delivering the parcel.

Date of sale:

Device serial number:

Proof of purchase No:

Seller's signature:

Stamp:

Notes: