

M^DERN EXPO

CHECKOUT COUNTERS

OPERATING MANUAL

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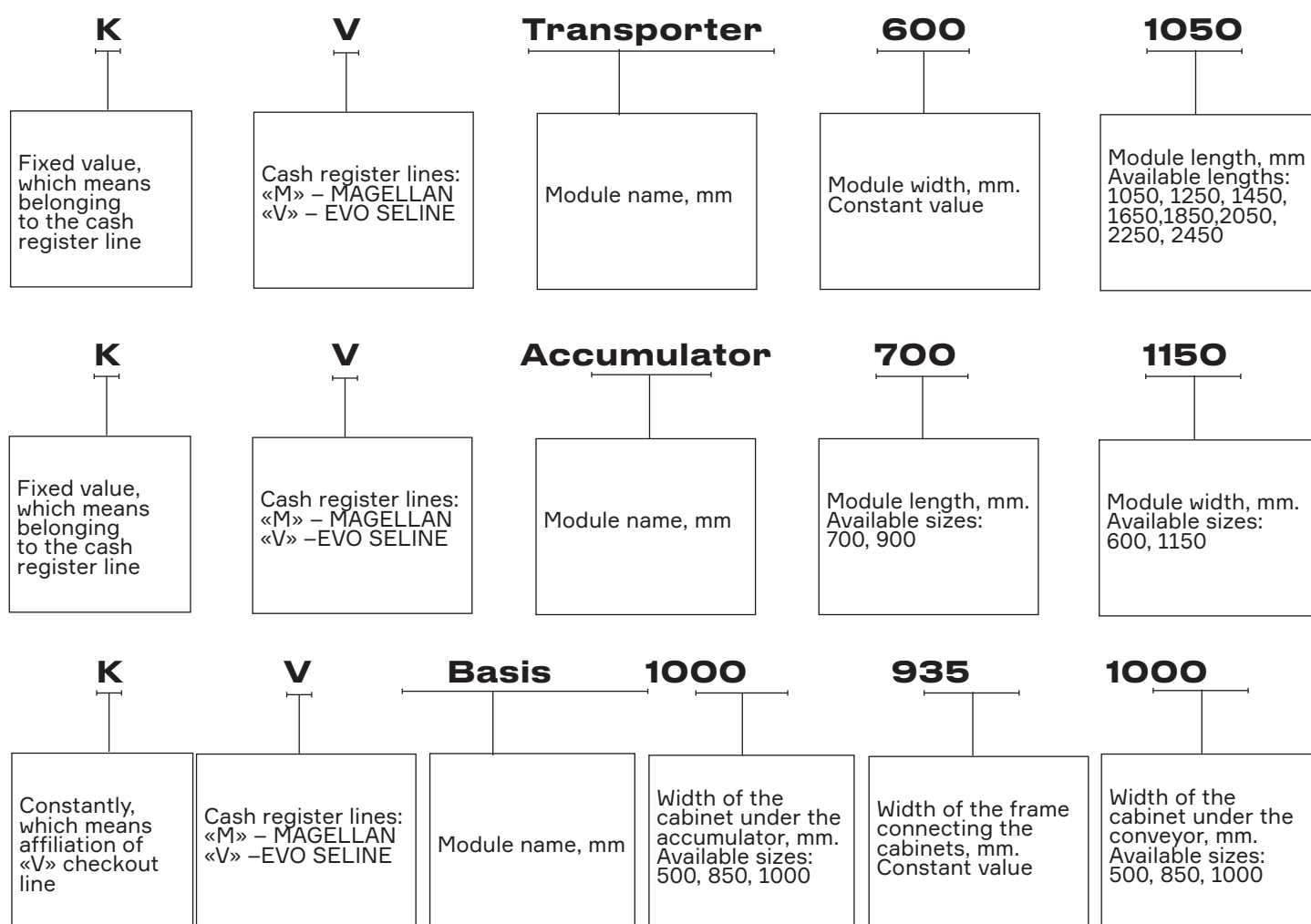
1. General information and product purpose

This manual is designed for modular cash registers of the following lines: Magellan, Modular, EVO SELINE.

This manual contains a description of the counter, work processes, technical parameters and other information for proper commissioning.

The company Modern-Expo is constantly working on improving its products. Small changes in the overall design are allowed.

Types of cash register and/or its parts, modules are classified by name in the database. The differences are only in the principle of construction. An example explanation is given below:



Therefore, the relevant information will be displayed on the label, depending on the selected cash register and/or its accessories.

As a conclusion, we can distinguish 2 main family lines, which differ in the type of bumper and overall dimensions.

The wiring diagram and components intended for these issues remain unchanged.

The manufacturer divides 2 main family lines (Model name on the label) according to the type of bumper - the 2nd letter in the classification shown above:

- letter M – bumper made of durable PVC. The general view is shown below (Fig. 1);

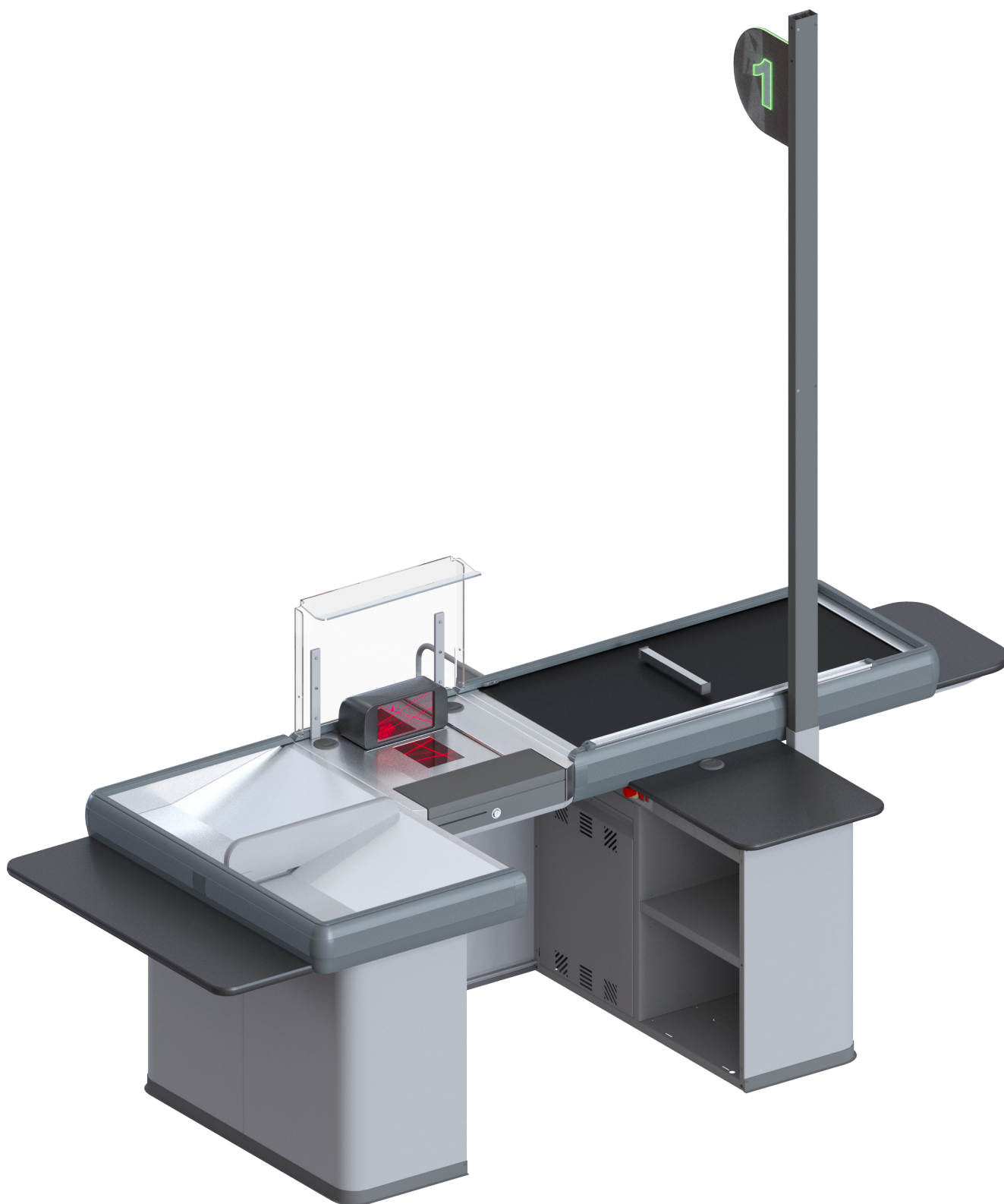


Fig. 1. The name of the model is MAGELLAN MODULAR

- V – bumper made of soft PVC (Fig. 2).



Fig. 2. The name of the model is EVO SELINE

2. Technical characteristics

The cash desk consists of an individual module.

The base of the cash register is made of steel - ZPS, thickness - 0.8 ... 3,0 mm.

The counters are equipped with an antistatic four-layer conveyor belt. The conveyor belt is suitable for food trade.

The surface of the product tray is made of stainless steel.

The design of the tabletop provides for the possibility of installing a scanner.

Metal parts are painted with powder paint.

The following equipment is also necessary when equipping cash desks: a control unit with a control panel, a power switch and an emergency stop button.

The electrical connection is three-pole with a voltage of 230 V and a frequency of 50 Hz. The total amount of load on the power network that passes through the control unit should not be more than 2A. Cash registers have a degree of protection (on the counter side) - IP 22.

Power 110 W.

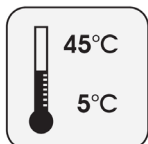
The lamps have a degree of protection IP 20 according to EN 60 529 / IEC 529th.

3. Instructions for use

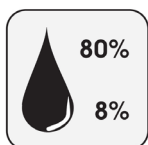
IMPORTANTLY! Please follow the instructions when working with cash desks. This will avoid any injuries; ensure a good appearance and stable operation during operation of the cash register:



- the checkout counters must be used exclusively for its intended purpose: for financial transactions, settlements with customers, placement of the cash register and necessary materials. It is prohibited to use it for storing unauthorized items, personal belongings, eating food or performing any other actions not related to cash transactions;



- the normal temperature in the place with cash registers should be between 5 and 45 (degrees Celsius). Avoid excessive heating, adjustment and installation near constantly wet/cold walls, which may damage the cash register or its parts;



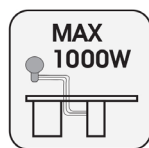
- the recommended humidity should be from 8 to 80%, respectively. Extreme values can negatively affect the cash register. Adequate ventilation is recommended to avoid humidity fluctuations;



- do not expose the counter's photocells to direct sunlight or other strong light. Keep the equipment away from direct sunlight;



- all manipulations intended for installation, repair or maintenance must be performed by trained and qualified personnel with knowledge of accident prevention regulations;



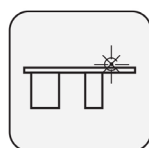
- the maximum electrical voltage should not exceed 1000 W;



- in the event of a fire, the cash desk must be immediately disconnected from the power supply. When extinguishing, use only powder or carbon dioxide fire extinguishers.;



- avoid direct and prolonged contact with water. Water spilled on the tabletop must be wiped up immediately;



- the cash desk should be cleaned only with special detergents. It is recommended to remove dirt with a soft brush. Dust should be removed only with a vacuum cleaner or a dry cloth. Chlorine and acid are unsuitable for cleaning.

Recommended maintenance schedule

Service		Frequency of execution		
		Daily	Monthly	Annually
1.	Functional test	√		
2.	Conveyor belt cleaning	√		
3.	Photocell cleaning		√	
4.	Dust collector cleaning	√		
5.	Belt tension control			√*
6.	Emergency stop switch control	√		
7.	Cleaning the inner parts of the conveyor ribbons			√*

*Must be performed by licensed professionals.



- the maximum load on the table top is 120 kg;



- warning – moving parts. Pay attention to fingers, other body parts and loose clothing;



- do not place bottles and other goods vertically on the conveyor belt.

IMPORTANTLY! Cash desks must be placed on a flat, horizontal surface. It is mandatory to fix the counter to the floor, the cash counter can only be used in a horizontal position.

Protect the surface of the counter from mechanical damage (impacts with hard objects, placement of sharp objects/products on the surface, mechanical movements of cutting tools on the surface, etc.).

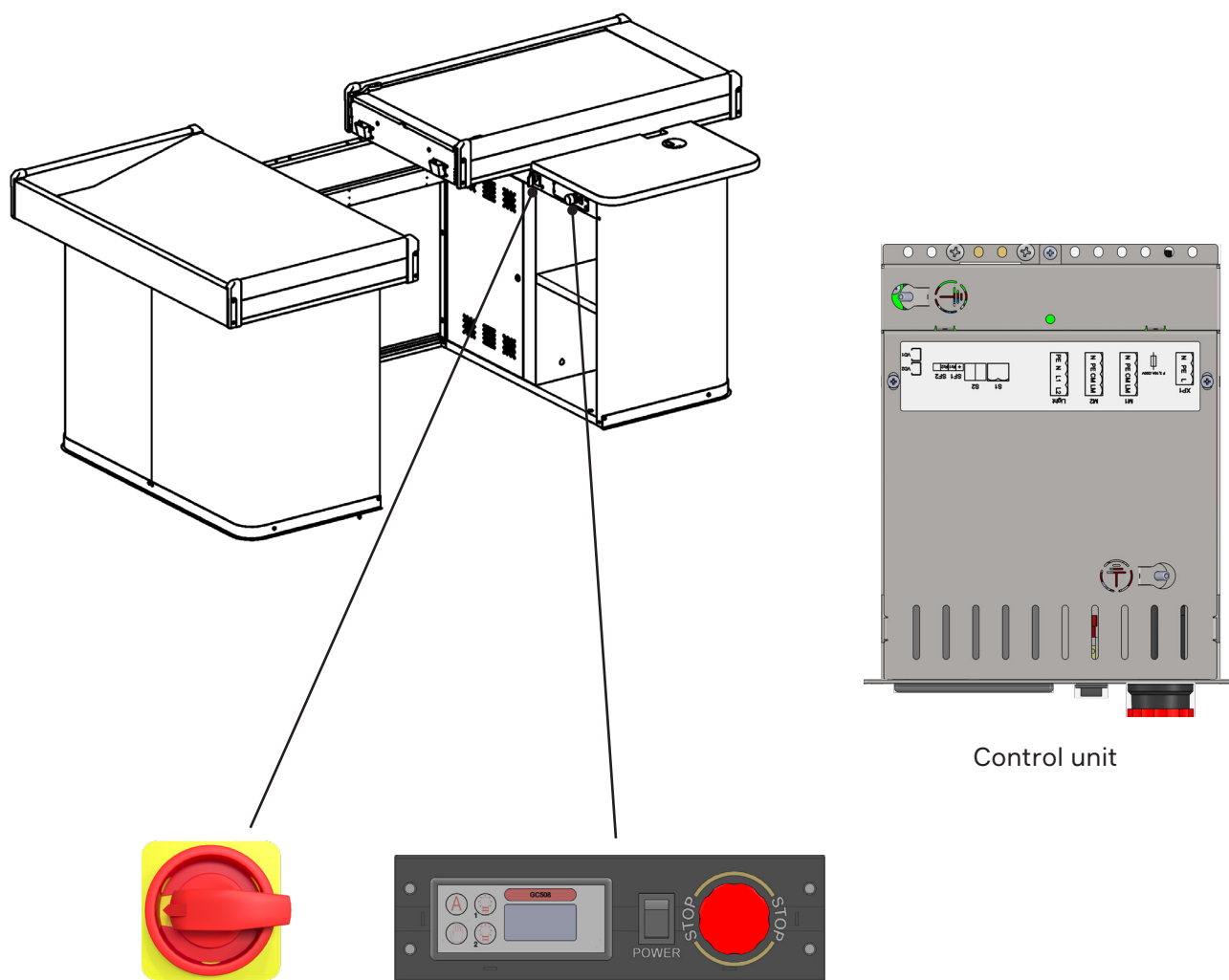
Before putting into operation, all attachment points must be properly checked for the accuracy of the connection.

During the launch of cash registers, it is **PROHIBITED** to:

1. Improper use of the counter.
2. Displacement or dislocation of fully assembled counters.
3. Exceeding the permissible load on the cash desk.
4. Improper use of the cash desk and/or its parts (throwing any objects on the surface, standing on top, etc.).
5. Use of abrasives and acids, unauthorized means for cleaning surfaces.
6. Contact with open flames or high temperatures.
7. Contact with chemically active substances and substances of organic origin.

Failure to follow the instructions may lead to significant deterioration of the product. In the event of a malfunction or malfunction of the equipment, which occurred as a result of violation of the rules of operation of the cash counters, the Modern-Expo company is not responsible.

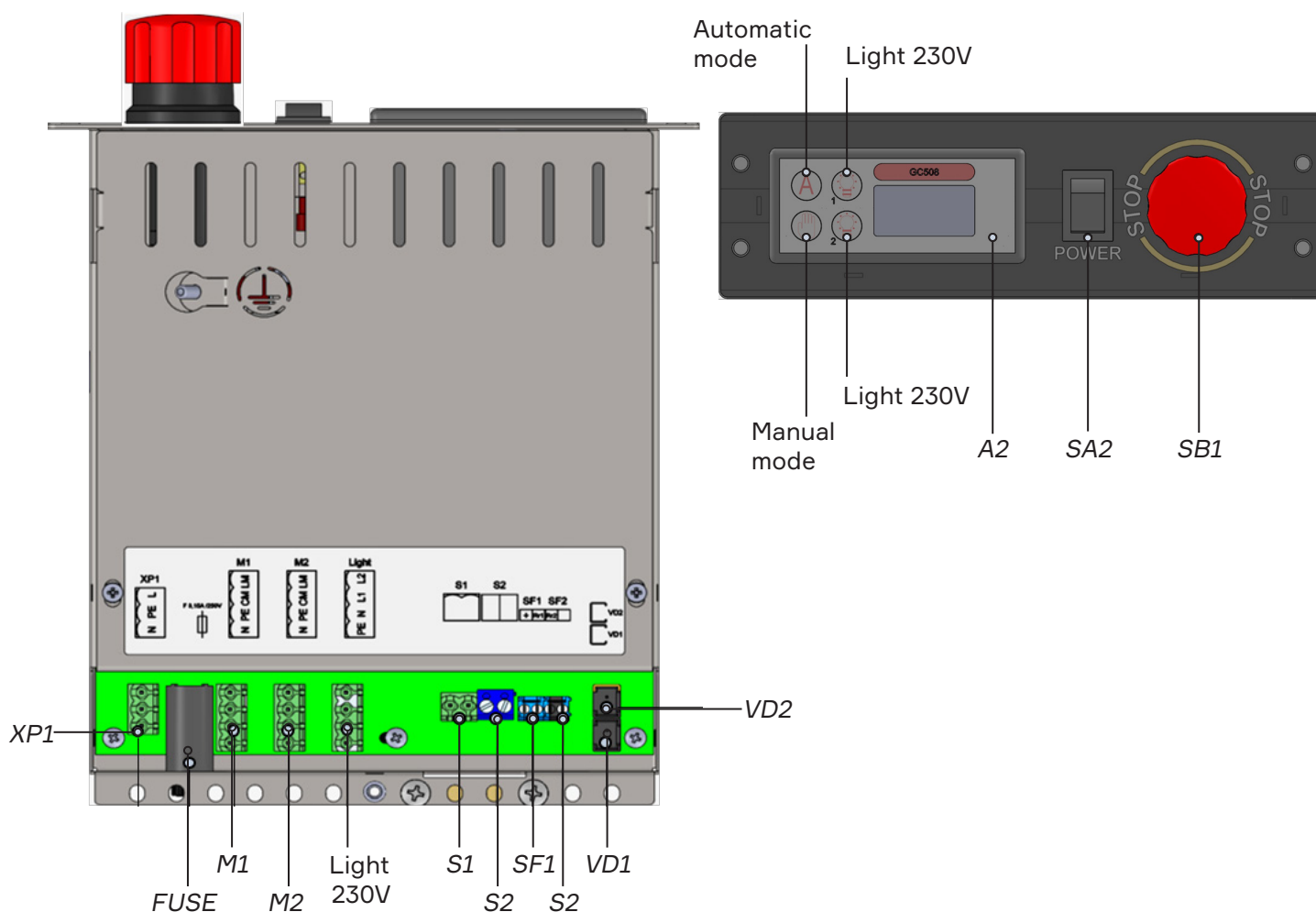
4. Electrical connection



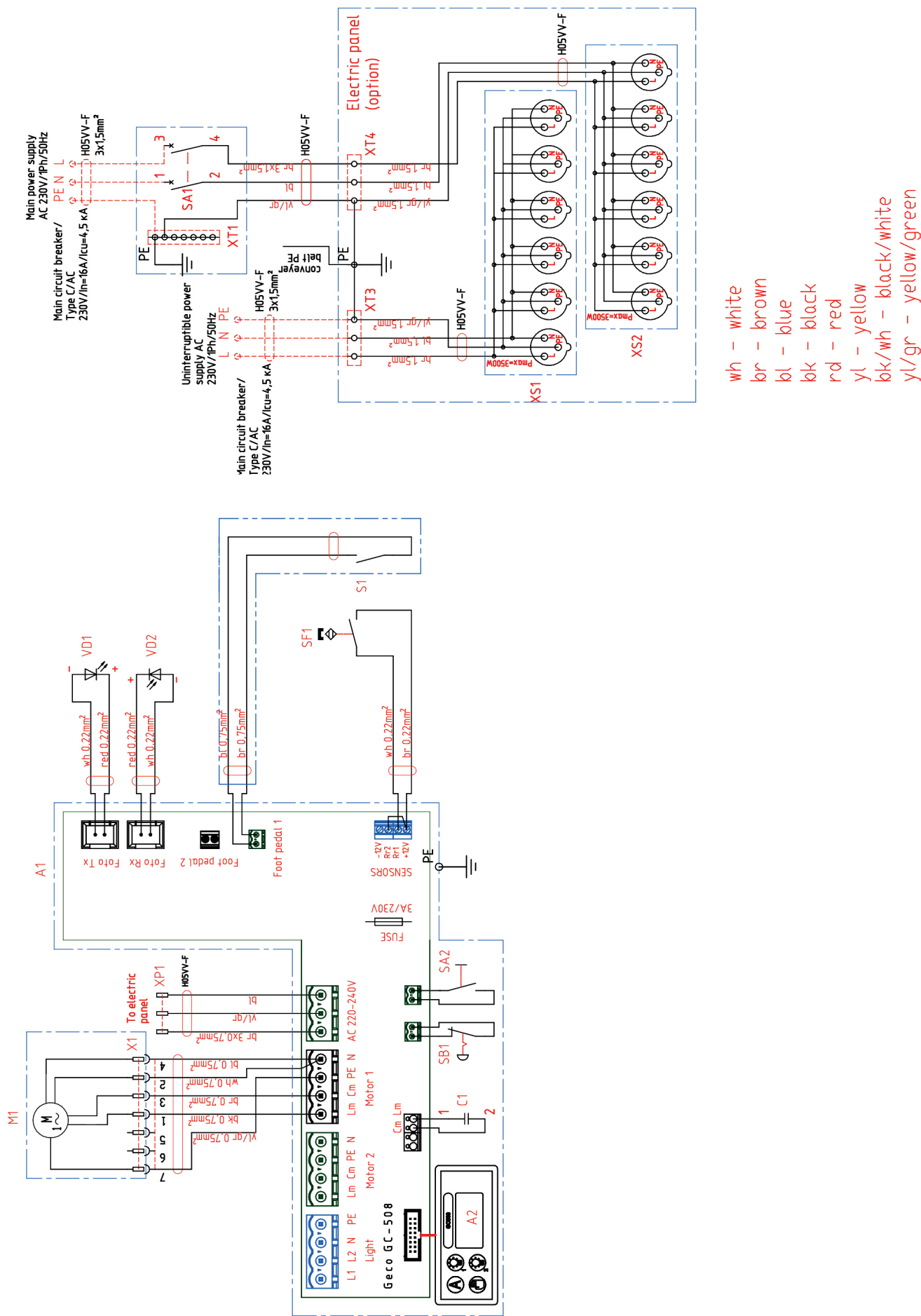
To operate the cash desk – insert the plug into the outlet and turn off the main switch on the control panel. If there is a malfunction, please check the current fuse, which is located on the back wall of the control unit.

Power grid system:

ID	Name	Q-ty	Supplier
A1	Control unit MG508	1	Geco
A2	Control panel PG508	1	Geco
C1	Capacitor 8 μ F	1	
M1	Drum motor 80C, 110W for the conveyor	1	INTERROLL
SA2	Power switch for the control unit	1	
SB1	Emergency stop button	1	
SF1	Electromagnetic shutter (emergency stop of the conveyor belt)	1	
S1	Foot pedal	1	Optional
VD1	Photocell (transmitter)	1	
VD2	Photocell (receiver)	1	
XP1	Power plug with 230V cable	1	



Electrical circuit



WARNING! Any electrical installation work is allowed only by qualified persons (electricians)!

Before connecting the cash register to the power grid, the buyer must check the grounding resistance. The index should not exceed 0.1 Ohm.

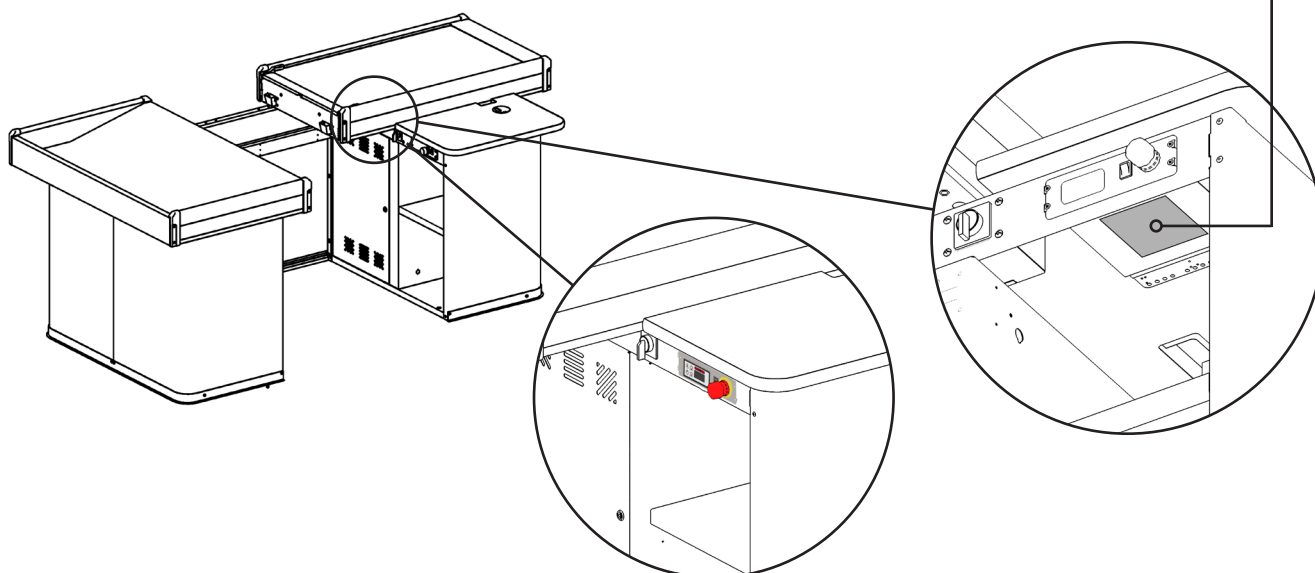
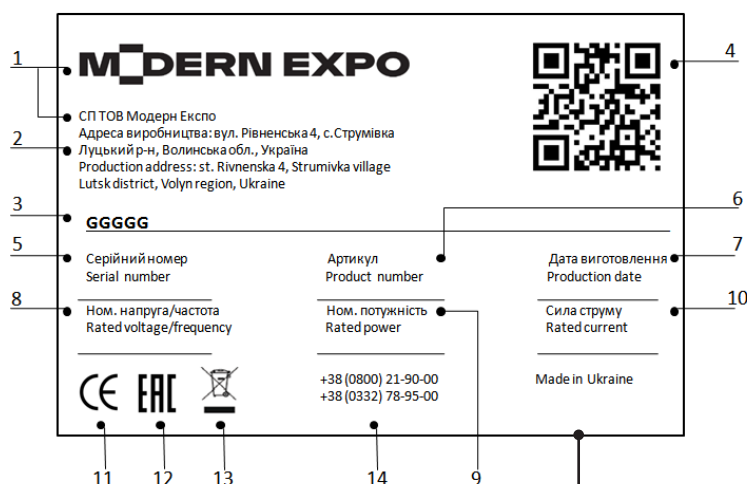
When turning off the power supply of the counter, the following conditions must be observed:

- the power source must have short-circuit protection and fire protection;
- any cash desk must have an independent power switch that allows you to disconnect all devices in all poles from the power supply;
- in case of an emergency power outage, it is necessary to have a separate power source and an emergency generator.

5. Identification data

The label contains useful and necessary information about the product and Community regulations (eg CE).

- 1 – manufacturer's name and trademark;
- 2 – manufacturer's address;
- 3 – model;
- 4 – QR code;
- 5 – serial number;
- 6 – product number;
- 7 – date of manufacture (month, year);
- 8 – nominal voltage and frequency;
- 9 – nominal power;
- 10 – current strength;
- 11 – compliance with the requirements of the European Union;
- 12 – compliance with the requirements of Eurasian compliance;
- 13 – do not throw into regular waste containers;
- 14 – contact phone numbers.

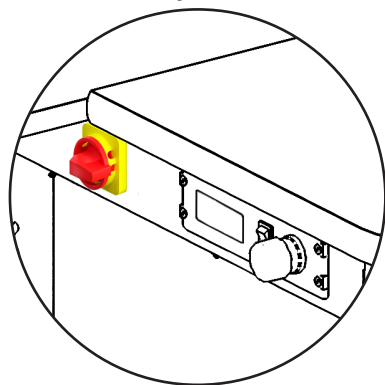


6. Installation/electromechanical connection

In order to correctly connect the device to the electrical network, it is necessary to:

- make sure that the voltage at the supply point meets the requirements of the network power supply;
- the equipment has a power cable with a wire and a grounding contact in the plug. The plug must fit tightly to the socket, which is properly installed and grounded;
- after connecting the cash register to the electrical network in accordance with the above instructions, you can turn on the equipment;
- the counter must be turned on for the first time by qualified personnel who must follow all safety instructions and rules;
- this procedure will ensure a safe and effective connection of the device to the electrical network.

6.1. START/STOP



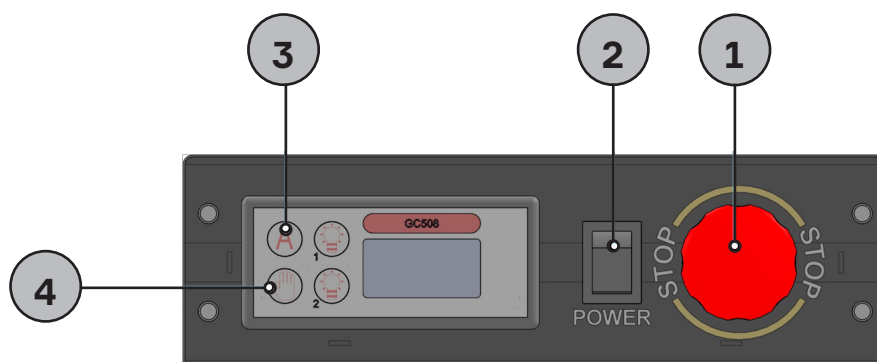
Main switch

1. Turn on the cash register using the main switch in the operating position, then turn on the control unit by pressing the “On/Off” button.
2. In case of emergency - use the emergency stop button to turn off the control unit, the belt will stop moving immediately.

IMPORTANT! Instruction and training of the cashier is mandatory!

The cash desk is put into operation in the following order:

1. Check whether the mushroom button “Emergency stop” is not pressed (to turn it off, turn the button to the right).
2. Apply power to the counter by pressing the “On/Off” switch on the touch control panel.
3. Switch control of the unit to automatic mode by pressing the “Automatic control” button.
4. When changing the block control selection, press the “Manual control” button.



The manufacturer is obliged to set the service parameters necessary for normal operation. Changing service parameters is prohibited.

Before using the cash register, check:

- perform a visual inspection for mechanical and other damage;
- check the condition and appearance of the conveyor belt;
- remove dirt and other particles from the dust collector under the conveyor belt;
- turn on the counter. Check the movement of the conveyor belt.

After finishing work, we recommend that the workplace and all associated areas are thoroughly cleaned of debris, dust and other particles that could damage moving and electrical parts.

Safety requirements when using cash registers:

1. Electrical safety:

- use only serviceable cash register equipment and certified electrical devices;
- do not overload the power supply by connecting unnecessary devices;
- avoid contact of the cash register with liquids and moisture;
- do not repair electrical equipment on your own, but contact a specialist;
- do not touch wires or sockets with wet hands.

2. Organization of the workplace:

- ensure cleanliness and order at the cash register;
- do not leave any foreign objects that may cause injury or interfere with work;
- provide sufficient lighting at the workplace;
- use anti-slip mats to prevent falls.

3. Actions in case of emergency:

- in the event of a short circuit or failure of the cash register, immediately disconnect it from the mains and notify the responsible specialist;
- in case of fire, use powder fire extinguishers without using water;
- follow evacuation instructions in case of emergency;
- report any malfunctions or potential hazards to management;
- familiarize yourself with the locations of emergency exits and fire extinguishing equipment.

Compliance with these requirements will help ensure safe, comfortable, and efficient work at the checkout counter.

7. Operation of cash registers

When using the cash counter, the client and the cashier have the opportunity to carry out an efficient purchase process under the following conditions:

- the client puts the goods from the basket onto the conveyor;
- the cashier moves the product to the working area (scanners, manual input) and transfers the product to the product tray;
- the customer picks up the purchased goods from the goods tray.

The following types of control are used for smooth movement of goods along the conveyor:

- automatic control – photocells transmit a signal to the processor. When the light signal stops, the conveyor belt stops;
- manual control (option) – the cashier starts and stops the conveyors using buttons (press - to turn on the moving belt/release to stop the moving belt).

8. Detection of damage/defects

Use the emergency stop button in case of any damage. Pressing the button will turn off the control unit and controlled moving parts, the conveyor belt will stop moving.

Use the main power switch to completely shut off the power to the counter.

If the control unit does not turn on, the mains voltage must be checked to ensure that the emergency stop button and the main switch are in the working position. The emergency stop button must be released by turning it.

In case of any damage, the cashier (operator) must press the emergency stop button, which cuts off the power supply to the control unit and its working parts, and also inform the responsible personnel about the malfunctions.

9. Packaging information

All modules/parts are packed in cardboard, sometimes in stretch film. Each package is equipped with a standard label, where all the necessary information is indicated (Data on the manufacturer, name of the module, type, color, size, weight, barcode, etc.).

10. Transportation and storage

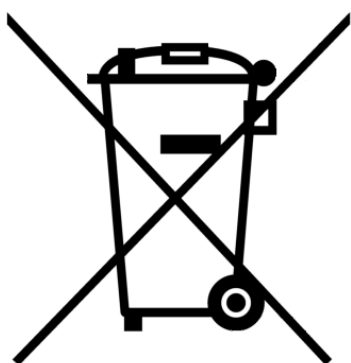
Cash counters must be transported in an unassembled form and transported in a closed vehicle (unless other conditions are specified in the contract with the manufacturer).

If the cash registers were transported or stored at sub-zero temperatures, they must be kept in a warm room for 24 hours before use without any loads or stress.

11. Disposal information

If the equipment is unsuitable for its intended use, it must be disposed of.

Do not dispose of it with household waste. In order to prevent adverse effects on the environment and human health resulting from improper disposal of the product, as well as to save natural resources and encourage the reuse of materials, the product must be recycled separately from other types of waste.



Components and materials such as lamps, glass, plastic, seals, panels, polyurethane foam, electrical controls and any other electrical parts must be collected and disposed of at specially authorized sites and/or by an official waste disposal center. Waste must be disposed of in accordance with the laws of the country in which the equipment was installed.

Corporate users should contact the supplier for disposal of the product and check the terms and conditions of the supply contract.

For disposal, contact the nearest official waste disposal and recycling center.

12. Complaints

In the event of a shortage, breakage or defect, the sales representative must be notified and the issue resolved.

The manufacturer does not accept complaints under the following conditions:

- the warranty card is not filled out (all lines of the warranty card must be filled out - mandatory);
- the warranty period has expired.

13. Warranty

All cash registers are delivered after electrical safety and performance testing.

The warranty is valid for 12 months from the date of delivery or installation and covers all electrical and mechanical parts.

The warranty is provided only after correctly filling out the warranty card and sending it to the address of the Modern-Expo service department or to the email address: service@modern-expo.com.

This warranty applies to all defects of materials and mechanisms, provided that the installation was carried out by representatives of Modern-Expo or specialists certified by the Modern-Expo company, and confirmed by the act of commissioning. In other cases, the warranty period is 14 days from the moment of receiving the goods.

Actions and damages leading to void warranty:

- after the completion of 14 calendar days from the moment of commissioning and putting into operation, the equipment was not delivered for maintenance and accounting by a service organization authorized by the Modern-Expo company. ;
- damage caused by natural phenomena (fire, flood, wind, earthquake, lightning strike, etc.);
- damage or inconsistencies caused by improper installation or failure to ensure proper product operating conditions, including unstable connection to wired and wireless networks, poor or missing grounding, exposure to external electromagnetic fields, exposure to direct sunlight, high indoor humidity, and vibration;
- damage caused by collision with other objects, as a result of falling, spilling liquids on the equipment or submerging it in liquid;

- damage caused by unauthorized repair or disassembly of the product;
- damage resulting from any other abuse, misuse, improper operation or misuse of the equipment:
 - damage caused by peripheral devices of third-party manufacturers (including visible damage to the motherboard or other electronic parts of the product, namely traces of electric discharges (blackened, burnt areas), overheating, melting, cracking, etc.);
 - any malfunctions caused by the use of software incompatible with the product, due to the effects of viruses, as a result of unauthorized modification of software and hardware (including BIOS systems) or installation of any third-party software components by the buyer.
- mechanical damage that occurred after the delivery of the goods to the buyer;
- damage due to careless, sloppy use, non-compliance with the rules, product care;
- damage or incorrect functioning of the device caused by the following actions:
 - use of non-standard and / or low-quality consumables, accessories, spare parts, power cells, media of various types (including memory cards, but not limited to them), use of software products that were not installed by the manufacturer;
 - activities of virus programs.
- changing, removing, erasing or damaging the serial number of the product (this also applies to stickers with serial numbers on its parts and components);
- cracks and scratches on the display and plastic parts, as well as other defects that occurred as a result of transportation, loading/unloading or improper handling by the buyer;
- the presence of 4 (four) or less defective pixels on the device's display, which, according to the manufacturer's policy, is not considered a warranty defect;
- warranty service is provided by an organization certified by the Modern-Expo company;
- warranty services, in accordance with this warranty, are provided only if the corresponding claims were submitted during the warranty period;
- before making a product defect claim, customers should back up all important data and, if necessary, delete all confidential, proprietary information and some of their personal data from the hard drive, flash drive. The manufacturer is not responsible for the damage or loss of any programs, data and other software or files located on the storage devices of the product. The Modern-Expo company disclaims responsibility for possible damages that were directly or indirectly caused by the company's products to people, pets or property in cases where this occurred as a result of violating the rules and conditions of product operation; intentional or negligent actions of the buyer (user) or third parties, as well as for any damages, indirect and accidental damages or losses that are the result of certain circumstances, including economic and immaterial losses, loss of profit, income, information data, caused by damage or the impossibility of operating the products.

The manufacturing company, its dealers or authorized representatives are no financial or moral responsibility to the buyer for material or moral damage caused due to product failure.

The manufacturer does not guarantee software and hardware compatibility of the product with software and equipment that are not included in the product delivery set.

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