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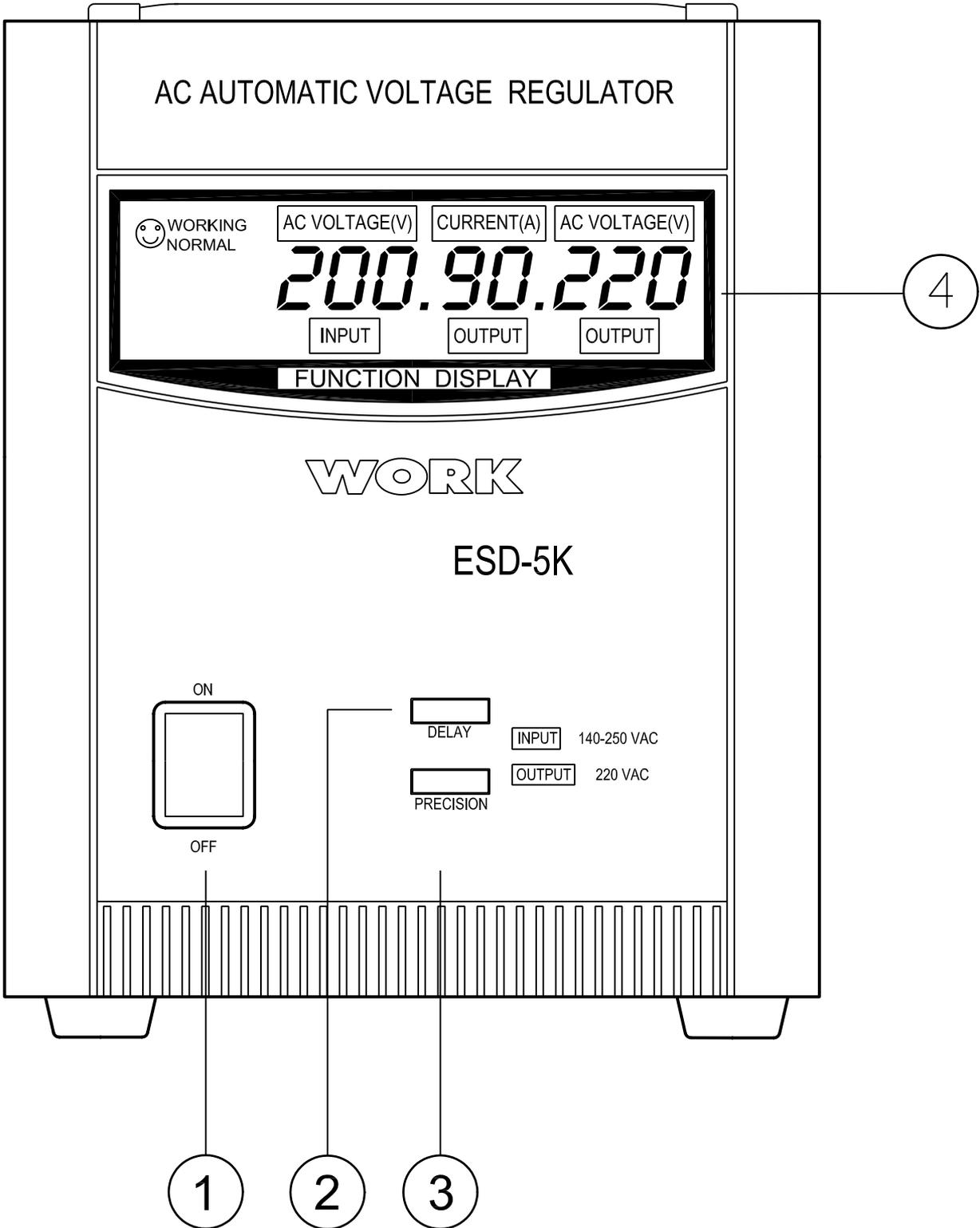
ESD-5K

**AUTOMATIC
VOLTAGE
REGULATOR**

INSTRUCTION MANUAL

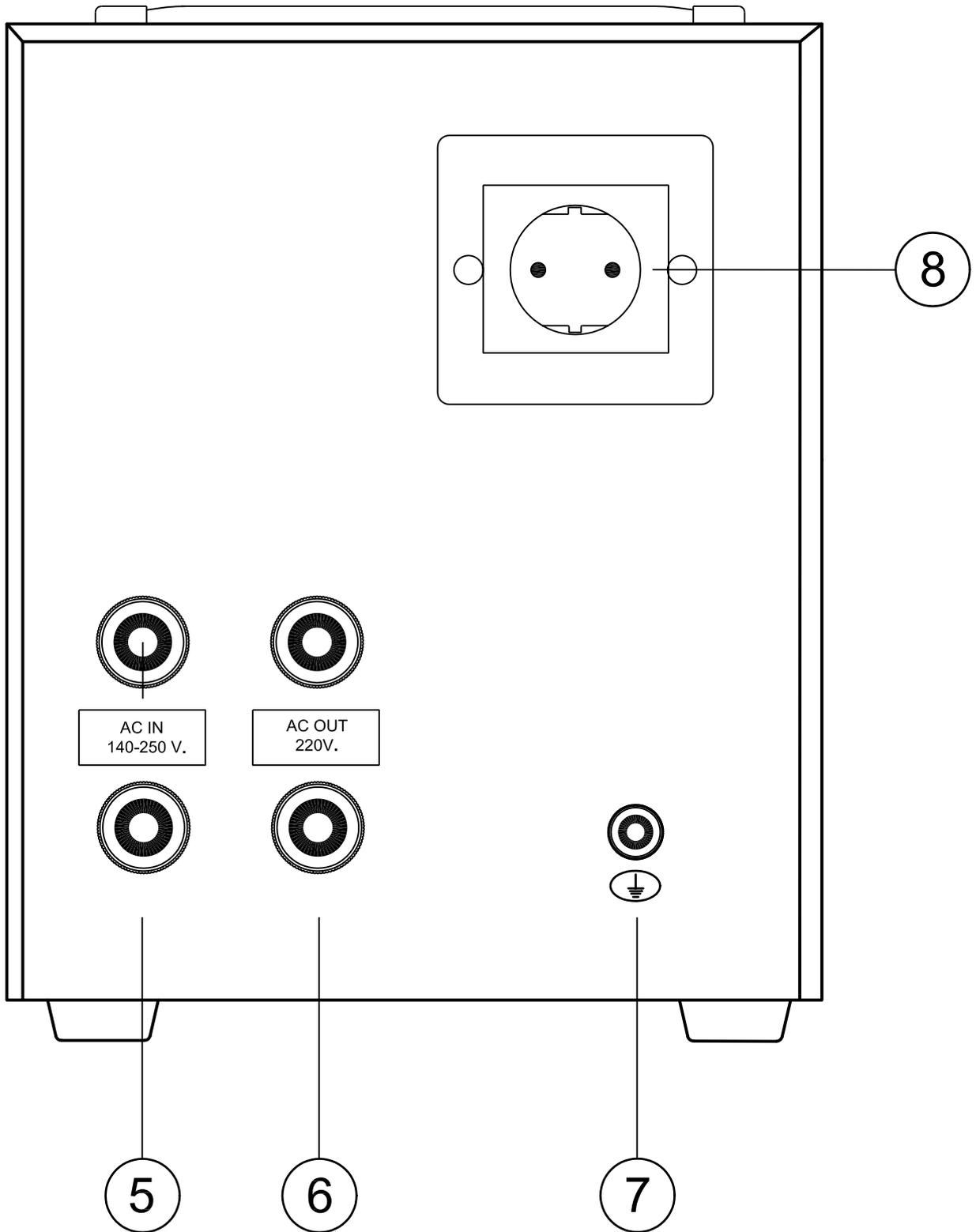
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ESD-5K



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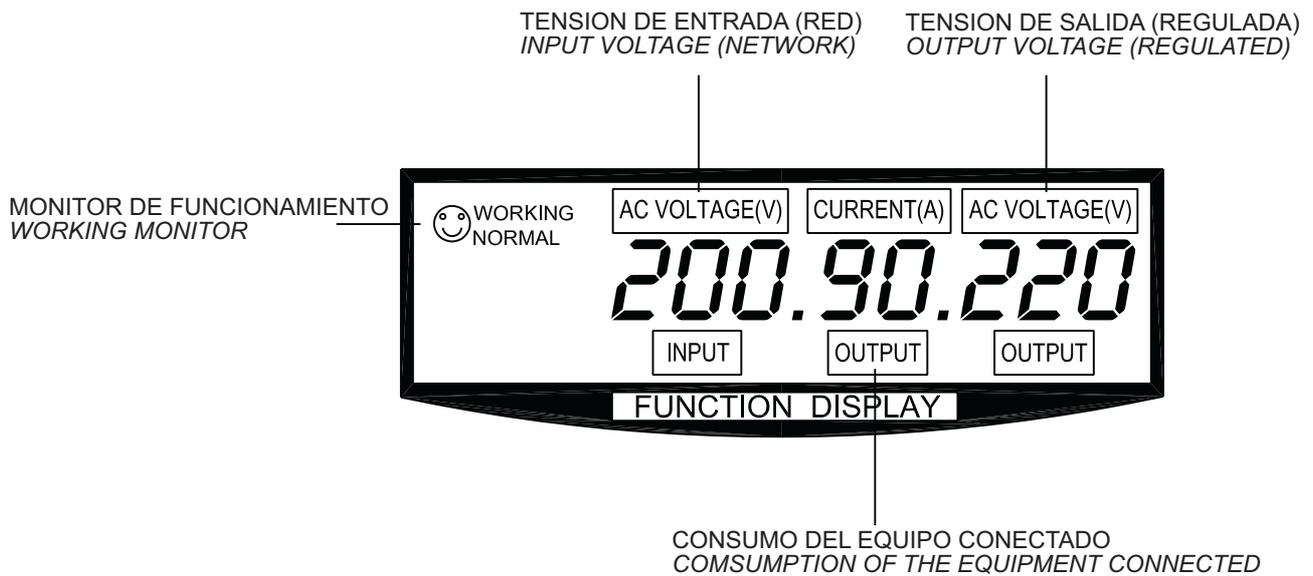
ESD-5K



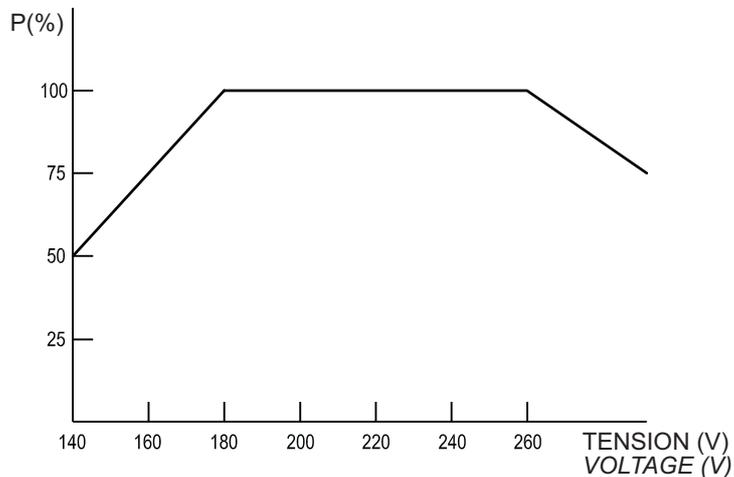
WORK

ESD-5K

DISPLAY



CURVA TENSION ENTRADA- POTENCIA INPUT VOLTAGE-POWER CURVE



First of all, permit us to congratulate you and us on having acquired a product **WORK**.

We hope it provides you a long and reliable service. Do not doubt about contacting with us for whatever reference or difficulty.

Next, we expose you the possibilities of the equipment that you have just acquired. If you are an experienced professional, you will find some obvious observations. However, we recommend you to read this manual, which can perhaps help you with some forgotten aspects.

The automatic tension regulator **WORK** ESD-5K, keeps the tension constant in 220V, as long as the input tension (network) be between 140 & 250 volts and the load connected not be more than 5.000 W. The necessity to keep the supply tension constant, specially for equipment which performance depends a lot of on that thing, converts the EDS-5K in a valuable auxiliary equipment for supply mixers, effects racks and digital equipment.

The operation conditions, are showed in the LCD display, placed in the front panel, that is retroilluminated for major commodity. (4)

To cable the ESD-5K, is necessary to provide a three conductor snake, with sufficient section for the consumption and the length of that cable.

The cables that come from the network, must be connected in the rear terminals labelled with the word INPUT (5). It is convenient to use terminals in order to make firm the cable subjection that the subjection of the cable be firm.

Once the terminals are subjected firmly, put the plastic transparent cover with the finality to avoid accidental contacts with some conductor parts.

Also connect the earth terminal (7).

In the opposite extreme of the snake, mount an appropriated plug to the consumption and remember that is very convenient, to project the line with a differential switch.

Connect one or several network bases to the output terminals OUT (6), with earth connection in each one. Use Schuko type, if it is possible, as they are well fixed in the bases, with a good contact in the earth connection.

Use for this connection, a snake with the same features than the network connection, provide the terminals connection and do not forget to connect the earth wire.

Remember not to overload the terminals and bases, so as it is convenient to use several multiple bases and avoid the adapters, multiple plugs, etc.

If any network plug seems to have bad aspect, because a knock consequence, contacts oxidation, etc, do not doubt to change it, your security and the security of the installation depend many times on these little details.

In the rear panel, above the Input/Output terminals, a Schuko base (8), offers to you the possibility to regulate quickly the tension, with limitations in load of this plug.

Turn on the ESD-5K, with the switch placed at the front and putting it in ON position. (1)

With the finality to allow the regulator makes the pertinent internal adjustments and delete the switch's parasite, the ESD-5K provides with a delay in the power-on of approximately three seconds, before that, the display illuminates and appears the message "WORKING NORMAL"

In the display appears the information related to the existing network tension in the wire that it is using (INPUT).

While this tension, is between the values mentioned previously (140-250 volts) the system gives 220 volts to the output, tension that you can read at the display that has over it the label "OUTPUT".

Between this two values of tension, corespondent to the first three and the last three digits of the display, are placed in the centre, two digits, under the label "CURRENT".

They inform about the consumption of the equipment connected to the ESD-5K. Logically, if nothing is connected and operating, this indicator does not indicate any consumption

This indicator, also provides information about the limits of the regulator's load. To give an orientation, we want to remember you that 5000W in a 220V tension suppose an approximated consumption of 25 amps, so that, it must not appear a higher value than this, although we advise you that let the value below this.

In the limits maximum and minimum, this means, between 140 - 190 volts and from 260 volts of input, the regulator power performance decreases to 50% at 140 volts, such as is reflected in the curve attached in this manual. Take into account this extreme when you need to work in these conditions.

The regulator has protections for excessive input tension (255 volts), high temperature (95°C) and overload (23 A). If any of these extremes happen, the unit will be disconnected, and emits an advise acoustic signal and the display will illuminate the label "UNUSUAL". To get back to work, remove the cause and turn it on.

The precision of the regulated output tension can be adjusted at two levels : 1% "PREC. H" and 3% "PREC. L", pressing the button "PRECISION" (3), placed in the front panel. The display shows the level selected, for a short time.

ESD-5K is a device with a high precision and must be transported with care, given that the high weigh of some of its components. We recommend you to protect the equipment from the first day of use, if you have to transport it, with the finality to avoid shakes and knocks.

Finally, we want remember you:

- Protect the device of heat and direct sun radiation.
- Avoid to accumulate dust, in the terminals and the vents.
- Impede to penetrate metallic objects in the interior of the device.

- If you have to move it, do it in a flight-case or a rack.
- Prevent a good ventilation.
- Do not remove the cover if it is not disconnected from the tension network.
- Protect it of the humidity, rain and any liquid that can penetrate in the interior.