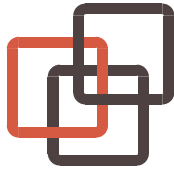




Supply Guard SG230

User's manual



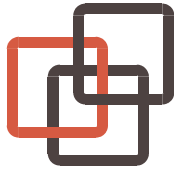
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1 Content

1	Content.....	2
2	Introduction.....	3
3	Principle of operation.....	3
4	Application information.....	3
5	Specifications.....	4
6	Company information.....	5



Figure 1 : The Supply guard



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2 Introduction

Thank you for buying the Supply guard

We often can't avoid using our valuable equipment in less than perfect circumstances. The number of risks quickly increases, and so does the need for security. One of the main dangers in the field is the absence of a stable good power supply. In most cases you use what you can get in a short time. The supply guard is developed specifically for this scenario. When you have no choice but use the available supply and you wish to safeguard your equipment, the supply guard is the key.

3 Principle of operation

The supply guard is a safety tool. It will intervene when necessary. It detects a dangerous situation by monitoring the supply lines. When it detects a dangerous situation, it will disconnect your equipment. This is done galvanically to guarantee maximum safety for your equipment. You can simply reset the Supply guard by resetting the circuit breaker. A circuit breaker is used because this adds an extra over current security. (Resetting the Supply guard should not be attempted until the voltage meter indicates a safe level).

There are various situations the supply guard will detect as dangerous. The first and most important is over voltage. When the voltage rises over 110 percent of the nominal supply, the supply guard will intervene. A second situation is under voltage. This is done because your equipment will probably not be working correct at this voltage. In most cases it is best that it doesn't work at all. The undervoltage is set around half the supply voltage. The third detected failure is a power line that continuously switches on and off. If the rate of switching is too high, it could destroy the power supply of your equipment because the inrush currents can not be repeated this fast. The supply guard again will disconnect your equipment.

4 Application information

First always make sure the Supply guard is OFF !!!!

The tool is build so it can be used in harsh environments. It is



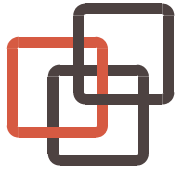
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not watertight, so care should be taken that it can not come in direct contact with water. It contains two power outlets. Connect your equipment to these. Only 5 Amps should be drawn from each!. Connect the power supply to the din connector on the side. Use the retainer clip to guarantee a secure fit.

Before activating the supply guard, first make sure the voltage meter indicates a safe level for your connected equipment.

5 Specifications

- Outputs : 2 * 5 Ampere
- Upper Trip voltage : 243V 250V
- Lower Trip voltage : 80V 110 V
- Max Trip delay : 0.3s
- Overcurrent protection 10A
- Clear input voltage indicator
- Power cord retaining clip
- Weight



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6 Company information

MGB-tech
Sint Ursmarusstraat 180
9200 Dendermonde
Belgium
Tel : +32 52 37 59 60
Fax : +32 52 37 59 63
info@mgb-tech.com
www.mgb-tech.com