



IPA 117 Manual

INSTALLATION AND OPERATING INSTRUCTION

Every effort has been made to ensure that the contents of this manual are correct. MSS Professional A/S does not accept any liability for loss or damage caused or alleged to be caused directly or indirectly by this manual. The contents of the manual may be subject to change without notice. MSS Professional A/S makes no warranty of any kind with regards to this material.

© 2011 MSS Professional

Reproduction in any matter whatsoever without the written permission of MSS Professional A/S is strictly forbidden.

READ AND SAVE THESE INSTRUCTIONS

MSS Professional A/S

Brunbjergvej 6
8240 Risskov
Denmark

Phone +45 7217 0011

Fax +45 8617 0055

smokecloak@mssprofessional.com

www.smokecloak.com

Manual

IPA 117

Indoor siren self-powered – VERY POWERFUL!

In discrete metal box, self-protected against forced opening and tear with housing for the internal battery 12V – 2Ah, IPA 117 is the inevitable solution to deter intruders.

The terminal « +12V CHARGE » is used for constant load from the battery's internal siren.

IPA 117 offers a **double load regulation** for battery:

- **Regulating the load current to 100 mA**, sufficient to charge the internal battery normally. In alarm only the internal battery is required. This effectively protects the charger from the panel when multiple sirens are powered by it.
- **Regulation of the charging voltage to 13,8 Vdc**: even if the charging voltage delivered by the panel is not high enough, IPA 117 amplifies it to provide the battery with a charging voltage maximum of 13.8 Vdc to warranty a perfect load.

IPA 117 has a tamper against the forced opening and tear without any regulation. The tamper against the forced opening can function only by adding a screw on top of the card (length of the screw 55-65mm, diameter: 4 to 5 mm). The screw is placed just above the electronic card. It must be screwed into the wall until its head comes into contact with the electronic circuit without pushing on it. To facilitate the positioning of the screw, use the drilling template provided.

Operation

A positive and continuous voltage of 9 to 16V on the terminal “+ BL SIR” can block or reset the IPA 117. At the disappearance of this blocking voltage, the alarm is activated for duration of 31 minutes. At the end of this delay, the IPA 117 is on standby, which avoids damaging the internal battery by a complete discharge.

To trigger again, IPA 117 must be reset: the blocking voltage of 9 to 16V should reappear on the terminal « +BL SIR» for at least 1 second.

Note that during the power up, IPA 117 doesn't trigger even if the blocking voltage is absent. It must first be arm by applying the blocking signal for at least 1 second.

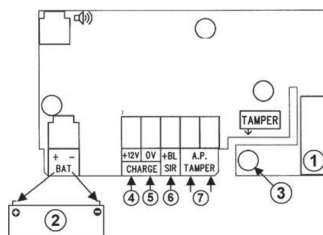
Moreover, the supply being provided by the terminal « +12V CHARGE» which limits the current to 100mA, IPA 117 can trigger only in the presence of the internal battery 12V-2Ah.

Connection

1. The tightening of the screws on the front acts directly on the switch of the tamper against forced opening.

Important:

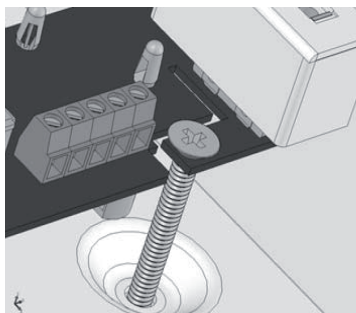
Verify the proper operation after installation by unscrewing the screw.



3. Position to the screw of tamper against forced opening
2. Internal battery 12 VDC – 2 Ah
4. Supply voltage (limited to 100mA) 12 to 14.5 Vdc
5. 0 Volt
6. Blocking tension (9 to 16 Vdc)
7. Loop of auto-protection

Installation

IPA 117 is provided exclusively for indoor use. It is installed to a vertical wall and flat surface greater than that of its body, leaving at least 2 cm on each side. Drill the mounting holes along the drilling template. Fix the chassis of the IPA 117 using 4 screws round head diameter of 4 to 5 mm (not supplied). Use a screw 4 to 5 mm in diameter (not supplied) for the tamper against forced opening and set it as shown above-cons without pushing on the electronic card. It is imperative to conduct tests and verify the proper operation of the alarm's sound and of the auto-protection after the installation.



It is strongly recommended to periodically check the proper tightening of connections and the condition of the internal battery and replace it if necessary.

Safety

- During the test, wear a hearing protective helmet or hold you at a reasonable distance of the IPA 117.
- Avoid any intervention on the IPA 117 by stormy weather.
- Use only the type of the batteries indicated on the specifications table

Destruction of the batteries

The battery backup of the IPA 117 is not provided by MSS Professional. However, do not dispose of batteries in your trash, it is forbidden to cremate, bury them or throw them into landfills. Dispose batteries according to the current laws and regulations. Please contact relevant authorities for further information on the arrangements put in place in your region to collect, recycle and dispose of used batteries.

Destruction of the product

As required by the WEEE (Waste Electrical and Electronic Equipment), electrical and electronic equipment must be disposed separately from normal household garbage to promote the reuse, recycling and other forms of recovery, as well as limit the amount of waste requiring disposal and thereby reduce the landfill. When disposing of such products, please follow the instructions of local authorities and / or check with your dealer when purchasing a new product.

Warranty

MSS Professional provides a guarantee of 3 years from the date of the manufacture. The year and month of manufacture appear on the label serial number placed inside the device. The warranty does not cover non-functional damage such as scratches, broken by a fall or shock or degradation caused by abnormal use. The guarantee applies only to cards and electronic assemblies and does not cover damage caused by natural or artificial surges. The guarantee applies only if the electronic part has not been dismantled, disturbed or transformed.

The warranty is strictly limited to repair or exchange parts that we found defective. Return costs are still borne by the sender. The detention of equipment under warranty won't give rise to any compensation for any reason whatsoever. The responsibility of MSS Professional is limited to the repair of products and do not extend to the consequences of their use, their implementation or their non-functioning.

Specifications

Supply voltage on +12V Charge: **12 to 14.5 Vdc**
Output voltage on +BAT: **13.8 Vdc (+/- 0.2 Vdc)**
Residual ripple allowed: **250 mV**
Consumption without alarm on battery: **5 mA**
Consumption with alarm on battery: **1.6 A**
Control voltage (+BL): **9 to 16 Vdc (0.1 mA)**
Triggering voltage: **below 4 Vdc**
Reset triggering: **more than 9 Vdc**
Level sound at 1 m.: **> 117 dBa**
Degree of protection: **IP31 IK08**
Environment: **Class II – General indoor**
Operating temperature: **-10°C to +55°C**
Dimensions: **192 X 182 X 62 mm**
Type of cables for the connection:

Cable 3 pairs:

rigid: diameter >= to 0.5 mm

flexible: diameter >= to 0.2 mm

Type of internal batteries:

12V 2.1Ah	YUASA	NP2.1-12FR
12V 2.1Ah	YUCELL	Y2.1-12FR
12V 2.1Ah	POWERSONIC	PS 1220 V0
12V 2.2Ah	ELECKSON	BEL120022
12V 2.3Ah	ACD	ST20
12V 2.1Ah	SUNLIGHT	SP 12-2.1V0

Autonomy on internal battery: 72 hours

Length of alarm: 31 minutes

Electromagnetic compatibility:

in accordance with the norms NF EN 50130-4 and NF EN 55022

Electric security:

in accordance with the norm EN 60950 ed. Oct. 2000

N° INCERT: B-712-0001

Supplier:

January 2011



Contact:

MSS Professional A/S
Brunbjergvej 6
DK - 8240 Risskov
Phone +45 7217 0011
Fax +45 8617 0055