



**Floor Guard WiFi**



# WG Global

Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*our patented system algorithm avoid false alarms from when walking through the gate.

## Floor Guard Wi-Fi

new

Invisible  
Is visibly better

Your store will impress your customer. And with WG Floor Guard at your entrance nothing interferes with this impression. Cutting edge security but fully invisible.

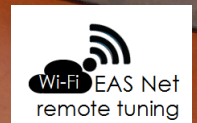
Just the way your store was planned and implemented by your architect, it takes the customer's perception.

The Floor Guard antennas disappear completely in the ground. Thus, passages of any width can be protected and you even win selling space compared to conventional EAS antennas.

Invisible Floor Guard is just as safe as the best conventional, visual systems and it prevents theft by additional new features.

Consequent tagging with 4-Alarm or traditional WG security tags is important to deter shoplifters right at the product.

Signage at visible places i.e. in changing rooms supports.



### **WG Global GmbH**

Sägewerkstraße 3  
D- 83416 Surheim

**Email:** info@wgglobal.eu

**D: Tel.** +49 8654 7715-0 Fax: -29

**A: Tel.** +43 810 900 313-0 Fax: -29

[www.wgglobal.de](http://www.wgglobal.de)



## Floor Guard - applications



Floor Guard is specifically designed for the exclusive Fashion, Outdoor, Sport and Luggage market segments. It's best used with our small high-performance ferrite tag "Super Pencil" (59 mm), the 49 mm Pencil-tag or the Shell-tag (55 mm). Detection performance will be in one level with the best visible retail security systems.

Now passages of each width can be protected completely invisible.  
Of course Floor Guard can also be combined with our four-alarm extreme security tags.



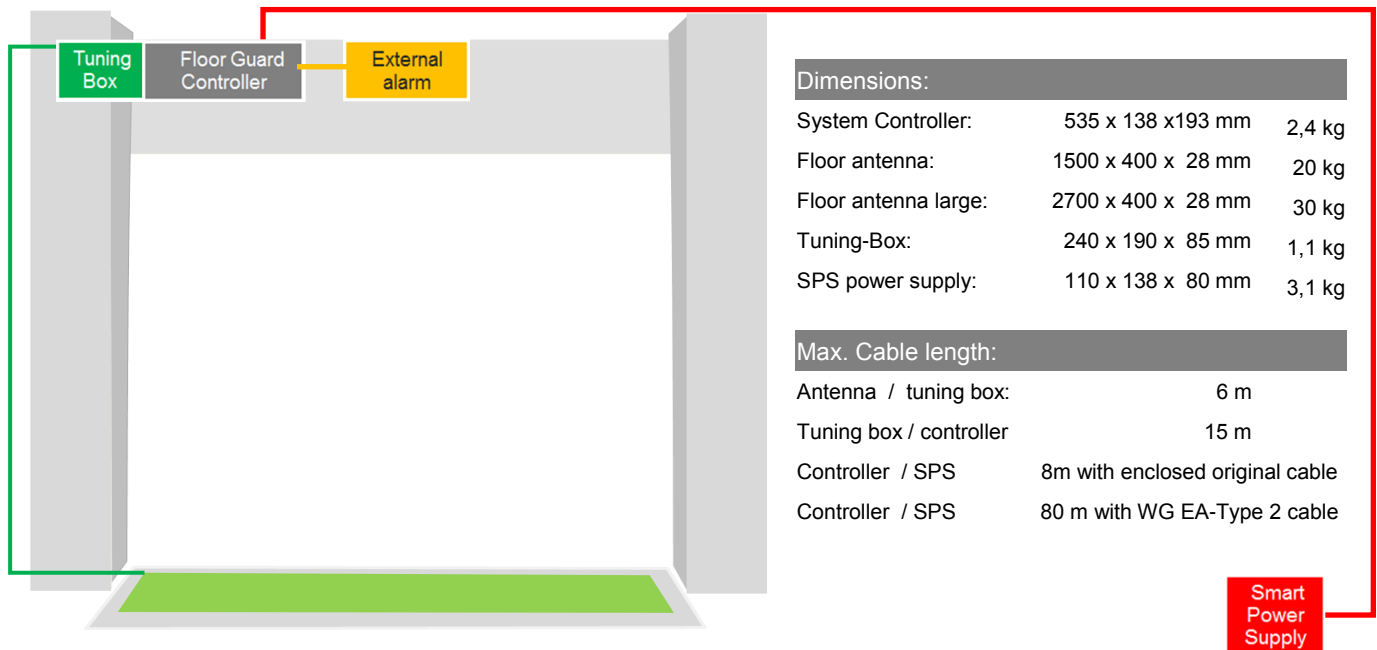
Floor Guard Antenna before pouring concrete

<b>Alarmzone:</b>	
<b>Type of tag</b>	Detection height
Shell, Mid Pencil	110-135 cm
Super Pencil	115-145 cm

\* Since the influence of metal in the soil can not be determined reliably in advance, we recommend the use of powerful tags like WG Super Pencil -, WG-Pencil- or WG Shell tags.  
Underperforming labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides.  
AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

## Floor Guard WiFi - Installation-Description:



The **Floor Guard Antenna** is installed into a recess in the floor. Due to the low height of just 28 mm, this is much easier feasible than in previous floor antenna systems. The antenna is cast in screed or cast resin and can be covered by non-metallic floor materials such as brick, wood, carpet, marble etc..

If an entrance-mat is framed by metal this must not form a closed circuit to avoid the effect of a Faraday cage, with negative influences on the signal field. A single cut of 1mm at a hidden position will solve the problem. To any magnetic metal a proximity of about 8 cm -10 cm is recommended. The floor antenna is connected through a max. 6 m long system cable to a tuning box.

In the **Tuning box** the raw antenna signals are processed and made resistant against interferences. Therefore the shorter this cable is, the better it is. With the 6 m cable from the antenna usually the ceiling can be reached and the box is located next to the controller. On very wide openings, where the cable length is not sufficient to reach the ceiling, the tuning box may be positioned behind a Revision-door in the wall or in the furniture. The tuning box is connected to the system controller.

The **System controller** processes all transmitter and receiver signals. Usually it is located behind a revision door in the false ceiling or a cabinet. It offers audio-alarm and Wi-Fi-connection for remote service. If the alarm volume is too low because the controller is mounted covert, an optional digital remote alarm (audible + optical alarm) unit can be used. Cables between tuning box and controller can be up to 15 m long. The controller is operated by 24 V low voltage coming from a WG Smart Power Supply.

The Smart Power Supply (SPS) is not only a power supply, it offers some very useful troubleshooting functions and therefore should be accessible for staff i.e. in the counter, the manager's room or possibly incorporated in an IT- or CCTV-19" Rack. It is connected via the enclosed 8 m long six-pin cable or for distances up to 60 m a through a cable with larger diameter (i.e. WG EAS System cable Type 2 with i.e. 7x1,5mm).

The SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS-alarm or jammer-alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.

Power supply, system controller and tuning-box must be accessible for service activities (inspection openings, doors, hatches, etc.).

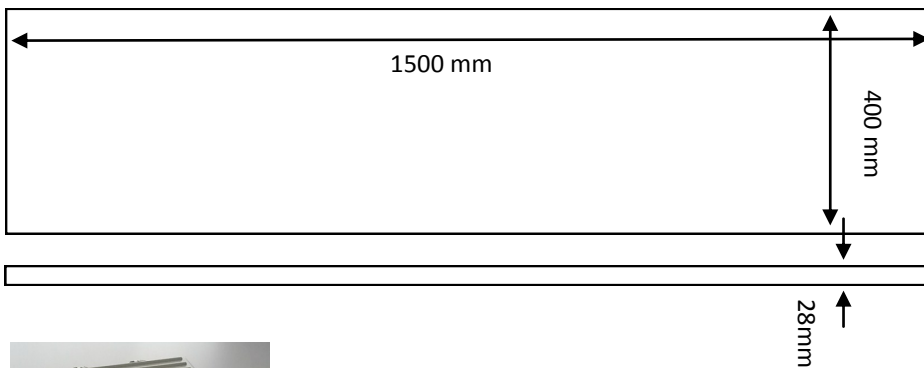
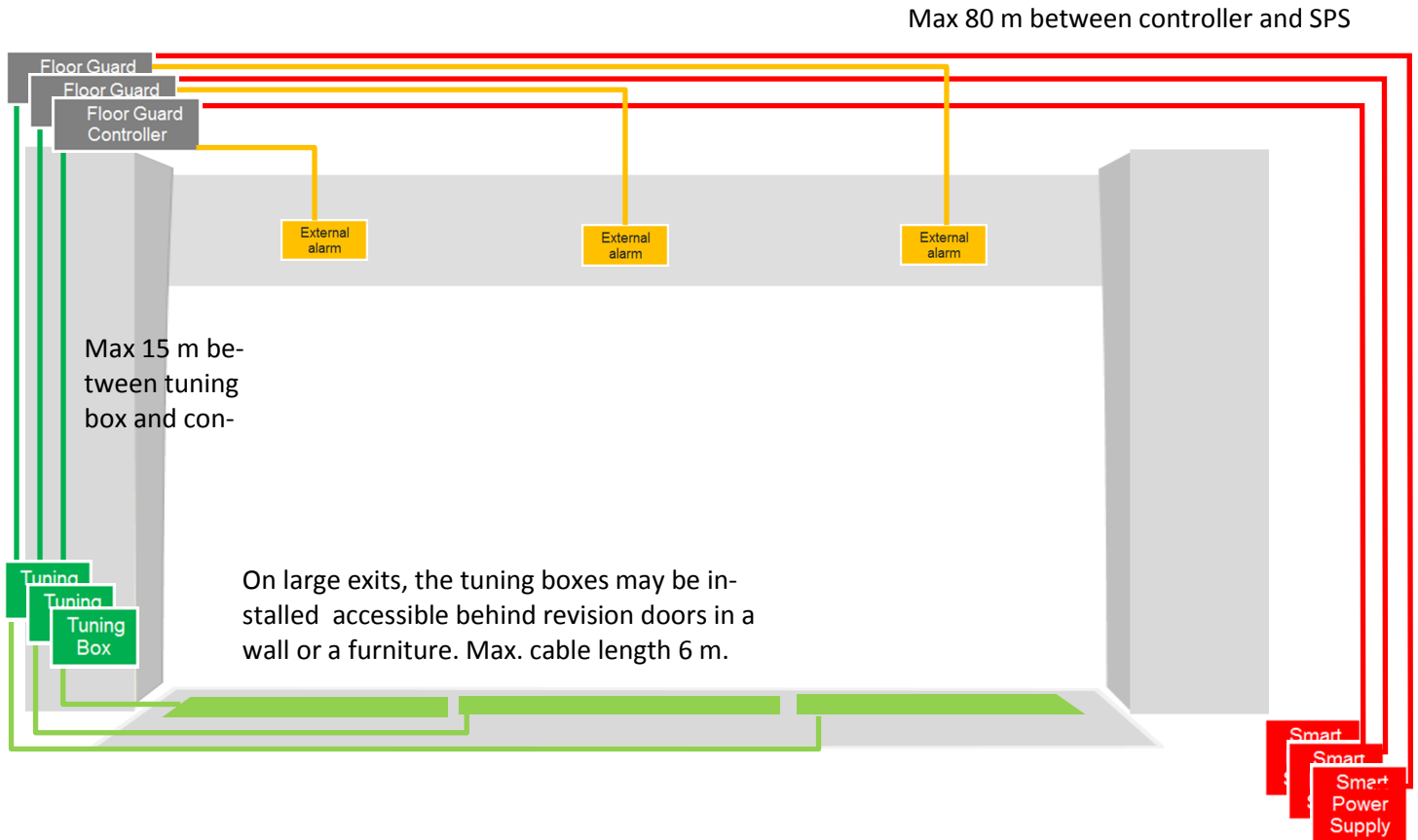
### Preparations:

230 V (min. 3x2.5 mm<sup>2</sup>) on dedicated circuit, at the same phase (L1 recommended) with the accessories.

Fuse minimum 16 A. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator. Terminal connection or untwistable sockets.

PG30 PG 30 Plastic conduits (recommended. 30 or 32mm)with inserted pull wire between: power supply and system controller, controller and tuning box as well as tuning box and antenna.

Floor Guard WiFi - Specifications:



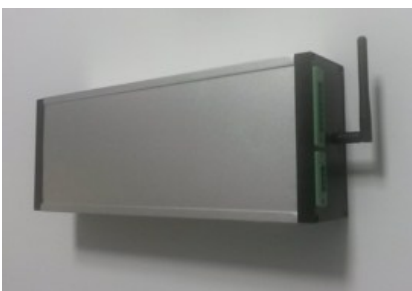
The SPS (Smart Power Supply) offers important troubleshooting features.

To be able to use them, we recommend to locate it accessible for store people.

SPS also has dry contact terminal for EAS-Alarm and Jammer Alarm.



Floor Guard Antenna, tuning box and Systemcontroller



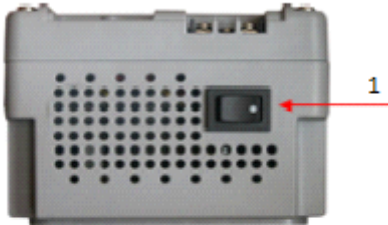
**Product Codes:**

- WG WFFG58 Floor Guard antenna (with tuning box)
- WG WFFGCB Floor Guard Controller
- SPS WG Smart Power Supply

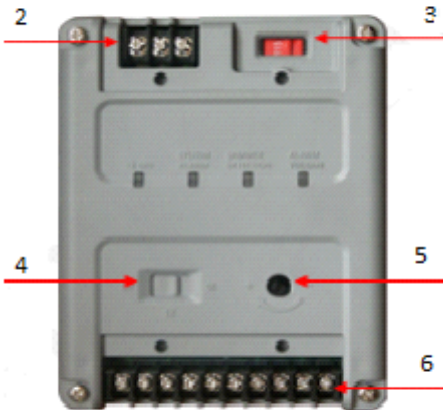


Smart Power Supply (SPS) - Specifications.

SPS Front View



SPS Top View



SPS Rear View



**The universal power supply for the new WG Retail security systems:**

Each system master or extender antenna requires a SPS. We recommend to have the SPS accessible for the store staff to disable and reboot (1) the system in case of a malfunction.

The 230 V (16 A slow blow fuse) connection is made via terminal box (2) by a regular min. 3x2.5 mm<sup>2</sup> cable. Dedicated circuit (separate fuse), and common phase (L1) with all acoustomagnetic accessories is recommended. Power consumption max 50 W per system, per deactivator 10/120 W (continuous or pulse).

If a system gives spontaneous alarms the TX switch (4) helps to verify if maybe is a system tuning or synchronization issue or a user error (tags too close) is the reason.

The alarm volume (5) can be varied. Dry contacts for connection to external alarm consoles or CCTV-Systems systems are applied to the output terminal block (6).

Plastic conduits with pull wire (PG 30 recommended.) between SPS and antenna shall be prepared as specified in the respective project outline and drawings.

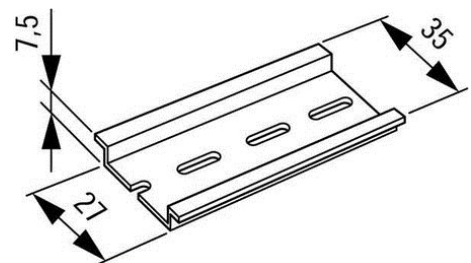
**Dimensions:**

SPS-Power supply: 110 x 138 x 80 mm 1,8 kg

**Product Codes:**

WG SPS

Smart Power Supply



SPS can be clicked on a standard DIN 46277-3 rail holder system.

We recommend to install SPS in a dedicated box, locked but easy accessible in service needs.

## Why acoustomagnetic technology?



AM EAS-systems are proven to have the highest detection rate in the industry. Even on products where RF and RFID technology fail because of given physical conditions, AM still performs best.

If labels are posted on aluminum foil or cans or when packaging is made of glossy cartons containing a thin layer of metal to achieve the great optical effect, the RF signal is shielded. Even in metal shopping carts or conductive materials such as Spirits and perfumes, AM detects better than all other EAS-technologies. It is reliable.

Possibly the most important fact for users and customers is that WG systems operate false-alarm free - because our special system algorithm eliminates false alarms from objects carried through the system. When a customer is in the gate and the system alarms, you can bet: Maybe you forgot to remove the tag or the customer "forgot" to pay. Anyway you will find a tag.

Our new Wi-Fi and BTL systems have reduced power consumption, offer jammer detection, wider exit widths, help users to identify alarms from tags being too close to the system and are compatible with RFID systems.

Smallest tags, reliable deactivation, and thanks to 4-alarm "Extreme Security" the maximum security level against professional shoplifters.

All this provides for the sustainable reduction of your shrinkage and an ongoing staff motivation.

## All this counts.

## About WG Global:



Each market segment, and each region has its specific problem areas and therefore require specific products.

We are constantly learning from practice and apply this know-how incorporated directly in the development of new solutions. This is part of our corporate philosophy and works best in an owner-managed company with direct access to resources - such as WG.

Creating first class solutions and functionality at an attractive price is our goal. Customer service includes product availability. In in our two warehouse buildings in Surheim we have sufficient storage capacity for 1200 pallets.

Many renowned retailers in Germany and Austria are already working with WG-Global's direct operations. To accompany their expansion WG has internationally experienced project managers.

WG Products are also available through our Sales and Service partners in over 60 countries creating our Global Service Partner Network.

WG as a medium-sized owner-managed company usually responds far more flexibly to our customers' requirements than others can. Our style is rather hands on than playing Power point.

**Check it out** and call WG or our local partner.





## Disclaimer

Particular care has been taken in the preparation of this catalogue. However, WG Global GmbH assumes no responsibility for errors or omissions. Nor is any liability assumed for damages resulting from the use of information contained herein. Furthermore, WG Global GmbH reserves the right to change any descriptions and specifications without notice.

## Copyright Notice

All content on this catalog, including but not limited to design, text, software, technical drawings, configurations, graphics, and other files are the property of WG Security Products Inc. or WG Global GmbH. All rights reserved. The Content may not be modified, copied or distributed, without WG's prior written approval.

Approvals provided may be terminated at any time.

### Impressum:

**Publisher:** WG Global GmbH, Sägewerkstraße 3, 83416 Surheim, Germany  
**Editing & Content:** Anton Kaltenleitner  
**Photos & Graphics:** WG Global GmbH  
**Layout:** WG Global GmbH

All rights reserved, all indications without engagement, subject to modifications. Misprints, typing- and printing errors reserved.

**Headquarter:** Surheim Sägewerkstraße 3, D-83416 Surheim

<b>Bank details:</b>	Germany:	Sparkasse Berchtesgadener Land	BLZ: 710500 00	Acc Nr. 389 304
		Commerzbank AG,	BLZ: 70080000	Acc Nr. 0230 500 800
	Austria :	Raiffeisenbank Mondsee/land	BLZ: 34322	Acc Nr. 311 266