



GETTING STARTED

ArtGuardian Base Station Installation and Handling

INTRODUCTION

The ArtGuardian-System consists of Sensor Units, Base Stations and the ArtGuardian Software-Platform. An ArtGuardian Sensor Unit consists of two modules: the Sensor Module and the Battery Module. Both modules of the ArtGuardian Sensor Unit are combined and held together using an Mounting Adaptor. The adaptor also serves for fixing the Sensor Unit to the artwork to be monitored. Measured data of up to six ArtGuardian Sensor Units can be transferred wirelessly to one Base Station. The Base Station transmits the data to the ArtGuardian Software-Platform via GSM.

TECHNICAL DATA

Color	white
Dimensions	80 x 80 x 32 mm (without external wall power supply)
Weight	ca. 120 g
Power Supply	+5V DC via wall power supply with international plug adaptor(s)
Power Reserve	up to 30 h without mains voltage (Li-Polymer-Cell)
Communication	short range communication with sensors (2.4 GHz) and GSM (2G) communication
Number of Sensor Units	max. 6 Sensor Units simultaneously per Base Station
Ambient Conditions	continuous operation -20 .. 60 °C, 10 .. 90 % R.H. non-condensing; storage 0 .. 35 °C
Included in Delivery	Base Station (AGS-BS-1G or AGS-BS-2GK), wall power supply, Getting Started manual

SAFETY INSTRUCTIONS

Please read the safety instructions carefully. Inobservance can cause dangerous consequences or violations of regulations.

Bringing into service: Before bringing into service please read the installation guidelines completely. In addition we recommend to compare the input voltage and the wall power voltage. Both have to fit to each other. During operation warming of the housing is normal and harmless. However, neither the mains adaptor nor the base station shall be operated covered or near the heating and do not expose it to direct sunlight. The devices may be used in confined spaces only.

Switch off in restricted areas: Switch off the device when mobile phone use is not allowed or when it may cause interference or danger, e.g. in aircraft, in hospitals or near medical equipment, fuel, chemicals, or blasting areas. Obey all instructions in restricted areas.

Interference: All wireless devices may be susceptible to interference, which could affect performance.

Mains adaptor and other accessories: Use only the mains adaptor and other accessories delivered or approved by the ArtGuardian GmbH. Third-party mains adaptors that comply with the IEC/EN 62684 standard, and that can connect to your devices Micro-USB socket, may be compatible. Do not connect incompatible products.

Dampness: Your device is not water-resistant. Keep it dry. Protect it against dampness and splash water. Keep all components dry too!

Care: Only use a soft, clean, dry cloth to clean the surface of the device. Do not use any cleaning agent.

Qualified Service: Only qualified personnel may open or repair this product.

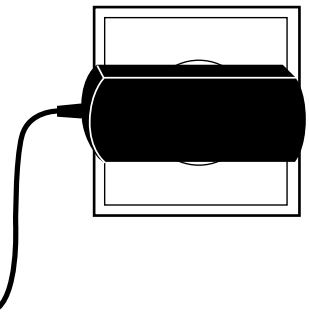
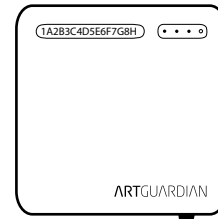
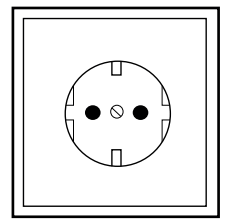
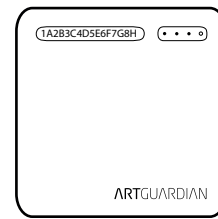
Disposal: Do not dispose off batteries in a fire as they may explode. Obey local regulations. Recycle when possible. Do not dispose the battery or the device as household waste. Address the local waste management service.

INSTALLATION

Please look for an appropriate position for the Base Station, taking into account the **maximum distance of 10 .. 15 m** between Base Station and all Sensor Units to be connected. The Base Station requires a wall power supply in a distance of max. 1.2 m for normal operation. It should also be placed at a location with good GSM (2G) network quality to be expected.

The Base Station can be placed on any plane surface or can be mounted to a wall using the two fastening eyes on its back side (screws for wall fastening are not included in delivery).

In order to start up the Base Station, please connect the wall power supply to mains voltage and then insert the Micro-USB plug at the end of the supply cable into the appropriate socket at the Base Station. The Base Station will be activated automatically by the connection to mains voltage and will show its **normal operation** via a **single white LED** after a few minutes. The Base Station is ready for operation from this moment on and will communicate with the ArtGuardian Software-Platform periodically.



OPERATION HINTS

The operational state of the Base Station is visualised via four LEDs (white, green, red, blue). Directly after connecting the Base Station to mains voltage, all LEDs will flash up for a short time to check their function. Afterwards, the Base Station will run through its startup routine. During this routine the white LED blinks continuously, while the other LEDs will turn off one after another. After completion of the startup routine the white LED will stay on continuously and the Base Station is ready for operation.

During normal operation the LEDs will show one of the following statuses. This can also help to detect potential malfunctions:

White LED on:	Normal operation from mains voltage
Green LED on:	No mains voltage! Operation from power reserve - power reserve will last for up to 30 h
Green LED blinking:	No mains voltage! Operation from power reserve - low battery warning, connect the Base Station to mains voltage as soon as possible!

Additionally to white or green LED:

Red LED on:	Base Station ist searching for a GSM network - LED will turn off after success
Red LED flashing 2x per sec:	Poor GSM network quality - perhaps a change of location can improve the quality
Red LED blinking:	Server error - if the LED keeps blinking continuously for several hours, please contact us
Blue LED flashing:	Successful communication with one or several ArtGuardian Sensor Units
Blue LED blinking:	The Base Station contains buffered sensor data - no user interaction necessary, the data will be transferred to the ArtGuardian Software-Platform automatically

Flight Mode / Deactivation

The Base Station can be deactivated temporarily - e.g for the purpose of enabling a transport within an airplane, where the operation is not allowed. In order to deactivate the Base Station, please at first disconnect it from mains voltage by unplugging the Micro-USB plug. It will now run from the power reserve. After that, press the recessed black button on the back side of the Base Station for about 1 second. The Base Station will be deactivated within max. 3 minutes (all LEDs are OFF) and can only be reactivated by connecting it to mains voltage again.

Troubleshooting - during the startup routine the following statuses are visualised via the LEDs:

Green LED blinking:	Level of power reserve too low for startup - await recharging until green LED turns off!
Red LED on for >5 minutes:	No GSM (2G) network available - try to find a location with sufficient GSM (2G) connectivity!
Red LED blinking:	Server error - if the LED keeps blinking continuously for several hours, please contact us!

CE 0681



MADE IN GERMANY by

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