# el<sup>®</sup> €€1471

#### WIRELESS GLASS-BREAK DETECTOR

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The AGD-100 detector enables detection of a break of plate, tempered and laminated glass. It is designed for operation within the ABAX two-way wireless system. It is supported by the ACU-100 controller with firmware version 1.06 (or newer) and by the INTEGRA 128-WRL control panel. This manual applies to the detector with electronics version 1.4D or newer.

#### 1. General

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The detector will report the alarm when a low frequency sound (impact) followed by a high frequency sound (glass-break) are registered. The high-frequency channel is analyzed for four seconds from receiving the low-frequency sound wave, caused by the impact. Sensitivity of the high-frequency channel is set by radio.

The LED is only functioning in the test mode:

- it is lit up for 80 milliseconds, when the detector is being polled;
- it is lit for 500 milliseconds after registering a low-frequency sound;
- it is lit for 2 seconds after registering a high-frequency sound or opening the tamper contact.
- Fig. 1: View of detector electronics board:
- 1 microphone.
- (2) tamper contact, which opens when the cover is removed or the unit is removed from its mounting surface.
- (3) CR123A 3 V lithium battery, ensuring operation for approx. 2-year period. The detector checks the battery status. When the voltage is lower than 2.6 V, the transmission sent during polling contains information on low battery.



#### 2. Installation

The detector is designed for indoor installation, attached directly to the wall. The protected glass surfaces must remain within the device detection range.



Curtains, drapes, furniture upholstery, acoustic tiles, etc. absorb the sound and adversely affect the detection range.

Be particularly careful during installation and replacement of the battery. The manufacturer is not liable for the consequences of incorrect installation of the battery.

The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.

1. Open the enclosure.

- 2. Install the battery and add the detector to the wireless system (see the ACU-100 controller manual, installer manuals for INTEGRA 128-WRL or VERSA control panels).
- 3. Close the enclosure and attach the detector temporarily at the place of its future installation. When choosing the place of installation, take into account both the range of radio communication and the distance to protected glass.
- 4. Launch remotely the test mode.
- 5. Check the level of signal received from the detector and perform a detection test. When in the test mode, the detector will report alarm on registering a high-frequency sound. The INDIGO TESTER is recommended to be used for testing the detector. If necessary, select another installation place or change the high-frequency channel sensitivity (for information on programming sensitivity please refer to the manual for ACU-100 controller and the programming manuals for control panels of INTEGRA and VERSA series).
- 6. Having selected the place which ensures the optimum signal level and glass-break detection capability, quit the test mode.
- 7. Open the enclosure.
- 8. Using wall plugs (screw anchors) and screws, fasten the enclosure base to the mounting surface.
- 9. Close the enclosure. The detector is now ready for work.

### 3. Specifications

Operating frequency band	. 868.0 MHz ÷ 868.6 MHz
Radio communication range (in open area)	up to 500 m
Battery	CR123A 3 V
Battery life expectancy	approx. 2 years
Standby current consumption	80 μA
Maximum current consumption	18 mA
Detection range	up to 6 m
Environmental class according to EN50130-5	
Working temperature range	10 °C+55 °C
Enclosure dimensions	24 x 110 x 27 mm

## Hereby, SATEL sp. z o.o., declares that this detector is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at www.satel.eu/ce

SATEL sp. z o.o. ul. Schuberta 79 80-172 Gdańsk POLAND tel. + 48 58 320 94 00 info@satel.pl www.satel.pl

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