The AGD-100 wireless glass-break detector is designed for operation as part of the ABAX two-way wireless system. It is supported by the ACU-100 controller with firmware in version 1.06 or later. The detector can be used for detection of breaking plate, laminated or tempered glass. The glass break is signaled on registering a low-frequency tone (impact sound), followed by a high-frequency tone (sound of broken glass). 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. When in the test mode, which is launched remotely, the detector will signal alarm if a high-frequency sound only is registered by the microphone. The INDIGO TESTER is recommended to be used for testing the detector.

Explanations for Fig. 1:

1 - screen.

2 - microphone.

3 - LED indicator. It lights red in the test mode only, indicating communication with the controller (during polling), registration of low- or high-frequency sound, and opening of the tamper contact.

4 - tamper contact, which responds to opening the housing and pulling it off from the surface.

Fig. 1. View of the detector PCB.

5 - CR123A 3 V lithium battery which ensures operation for approx. 3-year period. The detector controls the battery status. When the voltage drops to 2.6 V, the "low battery" information is sent to the controller. The low battery signaling continues until the battery is replaced.
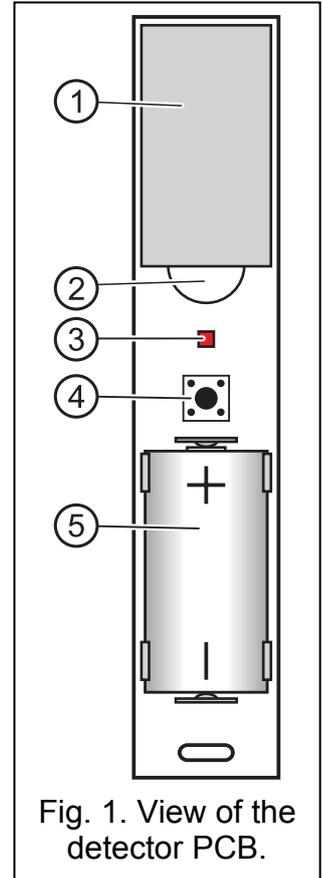
1. Installation

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

> **Before mounting the detector permanently, check the level of signal received from the detector by the ACU-100 controller and, if necessary, change the place of installation so as to select the optimum location in terms of communication.**
>
> **Install the battery inside the detector just before registering it in the controller. If unregistered or having no communication with the controller, the detector will consume more energy, which will reduce the battery life.**
>
> **Curtains, drapes, furniture upholstery, acoustic tiles, etc. will reduce the detection range of the device.**

1. Open the housing.

2. Install the battery and add the detector to the wireless system (see the ACU-100 controller user manual). A label with 7-digit serial number that should be entered during registration of the detector in the system is provided on the screen on the electronics board.

3. Close the housing.

4. Select the place where the detector is to be installed (taking into consideration both the radio communication range and the distance from protected glass surfaces) and attach it there temporarily.

5. Launch remotely the test mode.

6. Check the level of signal reaching the controller from the detector, and carry out the detection test (see the INDIGO TESTER user manual). If necessary, select another place for installation or change the sensitivity of high-frequency channel (see the ACU-100 controller user manual).

7. Having selected the place which ensures the optimum signal level and glass-break detection capability, quit the test mode.

8. Open the housing.

9. Fasten the housing rear panel to the wall.

10. Close the housing. The detector is now ready for work.

2. Technical data

Working frequency band	868.0 MHz ÷ 868.6 MHz
Radio communication range	up to 400 m (in open area)
Power supply	CR123A lithium battery, 3 V
Battery life	approx. 3 years
Detection range	up to 6 m
Environment class	II
Working temperature range	-10 °C...+55 °C
Housing dimensions	24 x 110 x 27 mm
Weight	52 g

⚠ **Batteries in the battery-supplied wireless equipment should be replaced by qualified personnel. Incorrect replacement of the battery can pose an explosion hazard.**

Always use the CR123A 3V lithium batteries.

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

DECLARATION OF CONFORMITY	$CE1471$
Product: AGD-100 – wireless glass break detector for ABAX system	**Manufacturer:** SATEL spółka z o.o. ul. Schuberta 79 80-172 Gdańsk, POLSKA tel. (+48) 0-58 320-94-00 fax. (+48) 0-58 320-94-01

Product description: Acoustic glassbreak detector intended for use with ABAX wireless alarm system components. Operating in the 868.0MHz – 868.6MHz frequency band. Supplied from a 3 V lithium cell. Device is intended for installation in intruder alarm systems.

The product is in conformity with the following EU Directives:
R&TTE 1999/5/EC

The product meets the requirements of harmonized standards:
ETSI EN 300 220-1: v.2.1.1; ETSI EN 300 220-2: v.2.1.1
ETSI EN 301 489-1: v.1.6.1; EN 301 489-3: v.1.4.1
EN60950-1:2004

Notified entity participating in the conformity assessment:
Identification No.: 1471

Gdańsk, Poland 2007-11-26	*Head of Test Laboratory:* Michał Konarski	

The latest EC declaration of conformity and product approval certificates are available for downloading on website **www.satel.pl**

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