



## ARF-100

### RADIO SIGNAL LEVEL TESTER

arf100\_en 09/17

The ARF-100 tester allows you to check the level of radio signal received and transmitted by ABAX system wireless devices and thus facilitates selection of an appropriate location for their installation. The tester can be used in conjunction with the following devices:

- ACU-120 / ACU-270 controller,
- ACU-100 / ACU-250 controller with firmware version 1.05 (or newer),
- ARU-100 repeater,
- INTEGRA 128-WRL control panel.

## 1. Features

- Two operating modes that enable checking of the level of signal:
  - received by the tester from the ABAX controller/ alarm control panel,
  - received by the ABAX controller / control panel from the tester.
- Ability to simulate the ABAX device powered from an external source or battery.
- LEDs indicating the operating mode and simulated power supply method.
- LED indicator of the radio signal level.
- Battery status control.

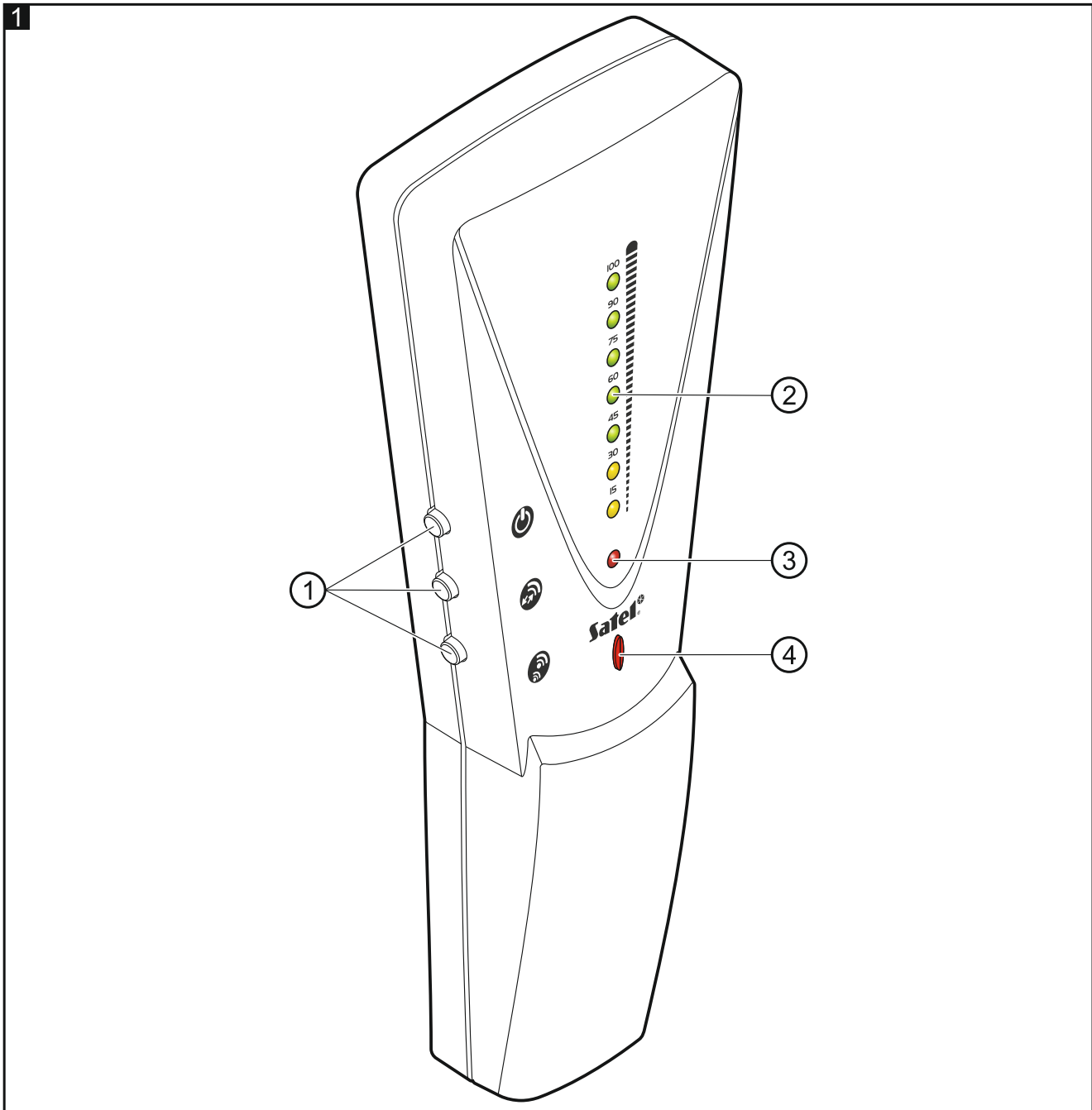
## 2. Specifications

Operating frequency band .....	868.0 MHz ÷ 868.6 MHz
Battery .....	9 V 6LR61
Operating temperature range.....	0°C ÷ +55°C
Dimensions .....	70 x 196 x 32 mm
Weight.....	137 g



**Hereby, SATEL sp. z o.o., declares that this detector is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at [www.satel.eu/ce](http://www.satel.eu/ce)**


### 3. Description

The ARF-100 tester occupies one position in the ABAX system.




① buttons:

-  – press and hold down the button for about 3 seconds to switch the tester ON / OFF (the switch-on is signaled by 4 short and 1 long beeps, and switch-off by 3 short beeps).
-  – press the button to change the tester operating mode. In the first mode (entered on switch-on), the tester indicator shows the level of radio signal received by the tester from the ABAX controller or from the control panel. In the second mode, the indicator shows the level of signal received by the ABAX controller or the control panel from the tester. The LED ③ indicates the current operating mode of the tester.

-  – press the button to toggle between simulation of the device powered from an external source and simulation of the device powered from a battery. After switch-on the tester simulates operation of the device powered from an external source. Which power supply method is being simulated is indicated by the LED **(4)**.

Press and hold down the button to change the refresh rate of the radio signal level indicator **(2)**. After switching the tester on, the indicator refresh takes place during polling and is signaled by one short beep. If you hold down the button longer than 3 seconds, the tester will enter and remain in the dense polling mode until the button is released. When in this mode, the indicator is refreshed every 2 seconds, which is signaled by two short beeps.

- (2)** radio signal level indicator. The indicator consists of 7 LEDs (2 yellow and 5 green ones), which present percentage of the radio signal level (15 – 100%). Intensity of the LED lighting depends on which device is simulated by the tester. If a battery-powered device is being simulated, the LED light is weaker. If, when the LEDs are ON, you change the power supply method (by pressing the  button), the LEDs will go off. They will only go on again during the next polling and will show an updated radio signal level. If the tester battery is low, all the indicator LEDs are blinking.
- (3)** red LED indicating the tester operating mode:
  - ON – checking the level of radio signal received by the tester from the ABAX controller / control panel,
  - flashing – checking the level of radio signal received by the ABAX controller / control panel from the tester.
- (4)** red LED indicating how the device being simulated is power supplied:
  - ON – powered from battery (e.g. AMD-100, AMD-101 and APD-100 detectors, ASP-205 siren),
  - OFF – powered from an external source (e.g. ACX-200 expander, ASP-105 siren, ASW-100 wireless controller).

## 4. Start-up and testing the radio signal level


---



**There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly.**

**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. Install the battery and switch the tester on.
2. Add the tester to the wireless system (see the manual for ACU-120 / ACU-270 controller or the installer manual for INTEGRA 128-WRL / VERSA / VERSA Plus / VERSA IP control panel). The serial number of each tester is 0000500.
3. Use the  button to define how the device simulated by the tester is supplied.
4. Start the test mode on the ABAX controller / control panel.
5. Place the tester in the location intended for installation of wireless device and check the level of radio signal received by the tester from the ABAX controller / control panel and the level of signal received by the ABAX controller / control panel from the tester. If the

signal level is lower than 40%, select a different installation place. Sometimes the signal level will be considerably improved by moving the tester some ten or twenty centimeters from the initially intended location. Do not install the device until you have obtained the optimal level of radio signal.

6. Having completed the test, switch off the tester and remove it from the ABAX wireless system.



*If not used, the tester will switch off automatically after 10 minutes.*

*Only one tester can work in the wireless system.*