ACU-220

ABAX 2 WIRELESS SYSTEM CONTROLLER

ACU–220 uses the 868 MHz (or 915 MHz*) radio band, in which 4 channels have been allocated. Communication between components of the **ABAX 2** system is encrypted (AES standard) and two–way, all transmissions being acknowledged. The controller works together with the **INTEGRA**, **INTEGRA Plus**, **VERSA**, **PERFECTA 64 M** and **PERFECTA–IP 64 M** control panels (connection via communication bus), making expansion of the alarm system possible by adding wireless devices. It can also interact with any other alarm control panel, automation controller (when using programmable zones and outputs of the module), or work in stand–alone mode.

ACU–220 meets the high EN 50131 requirements for Grade 2.

An advantage of the controller is its excellent transmission range, which can be up to 2000 m in the open area, depending on the device working with the controller and their operating conditions. Such good communication parameters are obtained thanks to the use of a modern radio system and antenna diversity. Depending on the level of received radio signal, **ACU–220** automatically selects the optimal antenna to be used to receive the transmission.

The system settings are configured in the ABAX 2 Soft program, which is installed on the computer and has also extensive diagnostic capabilities. When working with the **INTEGRA**, **INTEGRA Plus**, **VERSA** or **PERFECTA 64 M** and **PERFECTA–IP 64 M** control panels, the **DLOADX** or **PERFECTA Soft** program or a keypad are used for the configuration. The settings can be changed and the firmware of enrolled wireless devices can be updated by radio, without having to demount them.

- compliance with the EN 50131 Grade 2 requirements
- two–way radio communication in the 868 MHz* band – 4 channels
- range up to 2000 m in the open area
- support for up to 48 wireless devices
- support for wireless keypads: **INT–KWRL2** – up to 4, **VERSA–KWRL2** – up to 6, **PRF–LCD–A2** – up to 2
- support for up to 256 **APT–200** wireless keyfobs
- works together with the **INTEGRA**, **INTEGRA Plus**, **VERSA**, **PERFECTA 64 M** and **PERFECTA–IP 64 M** control panels – connection to the communication bus
- option of autonomous operation or with any alarm control panel / controller
  - 8 programmable outputs
  - 4 programmable zones
- 4 outputs indicating the state of controller and connected wireless devices
- antenna diversity – automatic selection of the antenna that will be used to receive the transmission, depending on the level of received signal
- programming controller settings via:
  - service menu of the control panel or **DLOADX** program – when working with the **INTEGRA**, **INTEGRA Plus** or **VERSA** control panels
  - service menu of the control panel or **PERFECTA Soft** program – when working with the **PERFECTA 64 M** and **PERFECTA–IP 64 M** control panels
  - **ABAX 2 Soft** program – when the controller is working as a universal module of wireless devices (in stand–alone mode or with any control panel/controller)
- firmware update without demounting of the controller
- remote configuration and updating of devices registered to the controller
- tamper protection
- power supply: 12 V DC

* Depending on the country, a different frequency band may be used.

Note – in the EU, this radio equipment is only permitted to operate in the 868 MHz frequency band.

TECHNICAL DATA

Supply voltage	12 V DC
Enclosure dimensions	126 x 158 x 32 mm
Board dimensions	103 x 139 mm
Operating temperature range	-10°C...+55°C
Standby mode current consumption	75 mA
Max. current consumption	100 mA
Weight	222 g
Maximum humidity	93±3%
Operating frequency band	868,0 ÷ 868,6 MHz
Radio communication range (in open area)	up to 2000 m m
Environmental class according to EN50130-5	II
Complied with standards	EN 50130-4, EN 50130-5, EN 50131-1, EN 50131-3, EN 50131-5-3
Security grade according to EN50131-3	Grade 2
OC type outputs	50 mA / 12 V DC