

Wireless four-segment keypad with display and NFC reader

Code: JA-155E-NFC



The JA-155E-NFC represents the basic user interface in the JABLOTRON 100+ and Mercury portfolios, designed for users who require maximum functionality and intuitive operation. The robust four-segment design significantly simplifies installation and, thanks to its wireless design, allows for installation without the need for any structural preparation.

Product description:

The keypad combines a clear display with segment-based controls that use a unique traffic light logic for immediate indication of the system status.

- **Traffic light control:** Four fixed segments allow for simple control of the most common functions, such as zone monitoring or PG output control, with clear colour status indication.
- **Innovative MIFARE authorisation:** Instead of the previous 125 kHz standard, the keypad supports modern and secure 13.56 MHz NFC MIFARE chips with advanced encryption.
- **Comprehensive system management:** The full range of system functions can be controlled via the internal menu, including viewing event history, managing users, or blocking individual peripherals.
- **Power supply and connectivity:** The module is powered by batteries with a typical lifespan of 1.6 years; alternatively, it can be powered by an external 12V power supply, with the batteries serving only as a backup.
- **External sensor input:** The keypad features a digital input for connecting a wired magnetic detector, which also serves to wake up the upon entry into the premises.
- **Power-saving mode:** When operating on battery power, the keypad goes into sleep mode; it is woken up by pressing a key, opening the door, an entry delay, or activation of the connected magnetic sensor.
- **System compatibility:** The product is fully compatible with the [JA-102K](#), [JA-103K](#), [JA-107K](#) and [JA-152KRY](#) control panel series.

Technical information:

Control device type	B
Power	4 x AA (LR6) 1.5 V alkaline batteries Note: Batteries are not included
Typical battery life	1-2 years depending on settings
Low battery detection	<4.5 V
Nominal current consumption	290 μ A
Maximum current consumption	95 mA
External adapter 12 V \pm 1 V	typ. 45 mA, max. 100 mA
Maximum cable length	3 m

Communication frequency	868.1 MHz, JABLOTRON protocol
Maximum radio frequency power (ERP)	<25 mW
Communication range	approx. 200 m es (open terrain)
NFC operating frequency	13.56 MHz
Maximum NFC magnetic field intensity	-5.4 dB μ A/m (at a distance of 10 m)
Dimensions	110 x 136 x 33 mm
Weight (without batteries)	285 g
Classification	security grade 2 / environment class II (according to EN 50131-1)
Environment	Indoor general
Operating temperature range	-10 °C to +40 °C
Average operating humidity	75 % RH, non-condensation
Certification body	Trezor Test s.r.o. (No. 3025), Kiwa Nederlands b.v.
Complies with	ETSI EN 300 220-2, ETSI EN 300 330, EN 62311, EN 50130-4, EN 55032, EN 62368-1, EN IEC 63000, EN 50131-3, EN 50131-5-3, EN 50131-6,T 031
Can be operated according to	ERC REC 70-03
Recommended screw	4x \varnothing 3.5 x 40 mm (half-round head)