

# CERTIFICATE

## of constancy of performance

### 1922 - CPR - 2478

In compliance with Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

**Fire detection and fire alarm systems. Power supply equipment. Input/output devices. Components using radio links. Radio signal range extender EN54 Fire ReX Jeweller, model: FRX.54.J-000-EU**

**Trade mark: AJAX**

(with the performance listed, see Annexes I, II and III to 1922-CPR-2478 that are an inseparable part of this certificate)

placed on the market under the name or trade mark of

**LIMITED LIABILITY COMPANY «AJAX SYSTEMS MANUFACTURING»  
("AS MANUFACTURING" LLC)**

**S. Sklyarenka Str., 5, Kyiv, 04073, Ukraine**

and produced in the manufacturing plant

**001**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002,  
EN 54-4:1997/A2:2006, EN 54-18:2005, EN 54-18:2005/AC:2007,  
EN 54-25:2008, EN 54-25:2008/AC:2012**

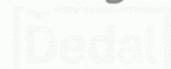
under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 07.11.2025 and will remain valid until 15.07.2028 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address [www.dedal-bg.net](http://www.dedal-bg.net).



Manager:

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Issued:  
Burgas, 02 December 2025

Ref. No. 01-01

## ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

### 1922-CPR-2478/ 02.12.2025

Performance list, acc. to EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002, EN 54-4:1997/A2:2006

Essential Characteristics	Performance	Clause
<b>Performance of power supply</b>		
- General requirements	Pass	4
- Functions	Pass	5
- Materials, design and manufacture	Pass	6
<b>Operational reliability</b>		
- General requirements	Pass	4
- Functions	Pass	5
- Materials, design and manufacture	Pass	6
- Documentation	Pass	7
- Marking	Pass	8
<b>Durability of operational reliability, temperature resistance</b>		
- Cold (operational)	Pass	9.5
<b>Durability of operational reliability, vibration resistance</b>		
- Impact (operational)	Pass	9.7
- Vibration, sinusoidal (operational)	Pass	9.8
- Vibration, sinusoidal (endurance)	Pass	9.15
<b>Durability of operational reliability, electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity tests (operational)	Pass	9.9
<b>Durability of operational reliability, humidity resistance</b>		
- Damp heat, steady state (operational)	Pass	9.6
- Damp heat, steady state (endurance)	Pass	9.14

## ANNEX II TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922-CPR-2478/ 02.12.2025

Performance list, acc. to EN 54-18:2005, EN 54-18:2005/AC:2007

Essential Characteristics	Performance	Clause
<b>Response delay (response time)</b>		
- Performance and variation of supply parameters	Pass	5.2
<b>Performance under fire conditions</b>		
- Functional test	Pass	5.1.4
<b>Operational reliability</b>		
- Functional test	Pass	5.1.4
<b>Durability of operational reliability, temperature resistance</b>		
- Dry heat (operational)	Pass	5.3
- Cold (operational)	Pass	5.4
<b>Durability of operational reliability, vibration resistance</b>		
- Shock (operational)	Pass	5.8
- Impact (operational)	Pass	5.9
- Vibration, sinusoidal (operational)	Pass	5.10
- Vibration, sinusoidal (endurance)	Pass	5.11
<b>Durability of operational reliability, humidity resistance</b>		
- Damp heat, cyclic (operational)	Pass	5.5
- Damp heat, steady state (endurance)	Pass	5.6
<b>Durability of operational reliability, corrosion resistance</b>		
- Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.7
<b>Durability of operational reliability, electrical stability</b>		
- Performance and variation of supply parameters	Pass	5.2
- Electromagnetic compatibility (EMC), immunity tests	Pass	5.12

## ANNEX III TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922-CPR-2478/ 02.12.2025

Performance list, acc. to EN 54-25:2008; EN 54-25:2008/AC:2012

Essential Characteristics	Performance	Clause
<b>Performance under fire conditions</b>		
- General	Pass	4.1
- Alarm signal integrity	Pass	4.2.2
- General	Pass	5.2
- Reproducibility test	Pass	8.3.7
<b>Response delay (response time to fire)</b>		
- Test for alarm signal integrity	Pass	8.2.3
- Test for mutual disturbance between systems of the same manufacturer	Pass	8.2.6
<b>Operational reliability</b>		
- Immunity to site attenuation	Pass	4.2.1
- Identification of the RF linked component	Pass	4.2.3
- Receiver performance	Pass	4.2.4
- Immunity to interference	Pass	4.2.5
- Loss of communication	Pass	4.2.6
- Antenna	Pass	4.2.7
- Power supply equipment	Pass	5.3
- Environmental related requirements	Pass	5.4
- Documentation	Pass	6
- Marking	Pass	7
- Test for immunity to site attenuation	Pass	8.2.2
- Test for identification of RF linked components	Pass	8.2.4
- Test for the receiver performance	Pass	8.2.5
- Test of compatibility with other band users	Pass	8.2.7
- Test for the detection of a loss of communication on a link	Pass	8.2.8
- Test of the antenna	Pass	8.2.9
- General	Pass	8.3.1
- Test schedule for components tests	Pass	8.3.2
- Verification of the service life of the autonomous power source(s)	N/A	8.3.3
- Test for the low power condition fault signal	N/A	8.3.4
- Test for the polarity reversal	N/A	8.3.5
- Repeatability test	Pass	8.3.6
<b>Durability of operational reliability and response delay, temperature resistance</b>		
- Dry heat (operational)	Pass	8.3.9
- Dry heat (endurance)	Pass	8.3.10
- Cold (operational)	Pass	8.3.11
<b>Durability of operational reliability, vibration resistance</b>		
- Shock (operational)	Pass	8.3.16
- Impact (operational)	Pass	8.3.17
- Vibration, sinusoidal (operational)	Pass	8.3.18
- Vibration, sinusoidal (endurance)	Pass	8.3.19
<b>Durability of operational reliability, humidity resistance</b>		
- Damp heat, cyclic (operational)	Pass	8.3.12
- Damp heat, steady state (operational)	N/A	8.3.13
- Damp heat, steady state (endurance)	Pass	8.3.14
<b>Durability of operational reliability, corrosion resistance</b>		
- SO2 corrosion (endurance)	Pass	8.3.15
<b>Durability of operational reliability, electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity tests (operational)	Pass	8.3.20