

# CERTIFICATE OF CONFORMITY

## No. 0041/2024

Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej im. Józefa Tuliszowskiego – Państwowy Instytut Badawczy  
upon a request by:

**Polon-Alfa S.A.**  
**ul. Glinki 155**

**85-861 Bydgoszcz, Republic of Poland**

on the basis of the Act of 13 April 2016 on the system of conformity assessment and market surveillance  
(Polish Journal of Laws: Dz. U. z 2022 r. poz. 1854); and in accordance with the procedures set out in the certification scheme of  
CNBOP-PIB Certification Department on performing the processes of conformity certification of products (PC-DO) states,  
that the product:

**SYSTEM POLON 4000**  
**based on control and indicating equipment type POLON 4100**  
**with cooperating devices**

manufactured by:

**Polon-Alfa S.A.**  
**ul. Glinki 155**

**85-861 Bydgoszcz, Republic of Poland**

in the manufacturing plant:

**Polon-Alfa S.A.**  
**ul. Glinki 155**

**85-861 Bydgoszcz, Republic of Poland**

meets the requirements of:

**PN-EN 54-13+A1:2020-05 Fire detection and fire alarm systems –**  
**Part 13: Compatibility and connectability assessment of system components**

### Documentation:

1. Application for the certification process of product conformity No. D/6834/2024 of 15.02.2024.
2. Test report No. 994/BA/2023 of 04.09.2023 prepared by Zespół Laboratoriów Sygnalizacji Alarmu Pożaru I Automatyki Pożarniczej (BA) CNBOP-PIB.


The certificate is valid provided that the Applicant complies with the requirements of the agreement No. 3/DC/DO/2024 of 15.02.2024.

Validity period:

from 15.02.2024

until 14.02.2029

MANAGER OF  
THE CERTIFICATION DEPARTMENT

  
p.p. Deputy Manager  
of the Certification Department  
Ewa Sobór, M.Sc. Eng.



DIRECTOR OF CNBOP-PIB

  
st. bryg. Paweł Janik, PhD Eng.

Józefów, 15 February 2024

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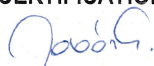
## No. 0041/2024

### SYSTEM POLON 4000 based on control and indicating equipment type POLON 4100 with cooperating devices

List of devices included in the test configuration according to test report No. 994/BA/2023 of 04/09/2023.

No.	Manufacturer	Name	Certificate number	Component type (according to PN-EN 54-13)	Transmission path
1	Polon-Alfa S.A.	Control and indicating equipment type POLON 4100	1438-CPR-0179	1	wired
2		Short-circuit isolator – duct smoke detector type DUO-6046K	1438-CPR-0652	1	wired
3		Input / output device – input / output device type EKS-4001 with short-circuit isolator	1438-CPR-0071	1	wired
4		Input / output devices - control and steering equipment EKS-4001 W with short-circuit isolator	1438-CPR-0399	1	wired
5		Input / output device - multi-input monitoring device type EWK-4001 with short-circuit isolator	1438-CPR-0101	1	wired
6		Input / output device - multi-output control device type EWS-4001 with short-circuit isolator	1438-CPR-0070	1	wired
7		Power supply type PZB 6000 with an input / output module and short circuit isolator	1438-CPR-0707	1	wired
8		Sounder with visual alarm device type SAB-6000 with socket G-40S in varieties SAB-6001-3RR, SAB-6001-6RR, SAB-6001-6WR, SAB-6001-3RW, SAB-6001-6RW, SAB-6001-6WW, SAB-6006-3RR, SAB-6006-6RR, SAB-6006-6WR, SAB-6006-3RW, SAB-6006-6RW, SAB-6006-6WW with shortcut isolator	1438-CPR-0703	1	wired
9		Sounder with visual alarm device type SAB-6000 with socket G-40SK in varieties SAB-6101-3RR, SAB-6101-6RR, SAB-6101-6WR, SAB-6101-3RW, SAB-6101-6RW, SAB-6101-6WW, SAB-6102-3RR, SAB-6102-6RR, SAB-6102-6WR, SAB-6102-3RW, SAB-6102-6RW, SAB-6102-6WW, SAB-6106-3RR, SAB-6106-6RR, SAB-6106-6WR, SAB-6106-3RW, SAB-6106-6RW, SAB-6106-6WW	1438-CPR-0704	1	wired

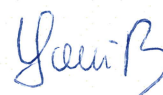
MANAGER OF  
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# CERTIFICATE OF CONFORMITY

## No. 0041/2024

**SYSTEM POLON 4000 based on control and indicating equipment  
type POLON 4100 with cooperating devices**

List of devices included in the test configuration according to test report No. 994/BA/2023 dated 04/09/2023.

No.	Manufacturer	Name	Certificate number	Component type (according to PN-EN 54-13)	Transmission path
10	Polon-Alfa S.A.	Sounder type SAW-6000 with base G-40S in options SAW-6001 and SAW-6006	1438-CPR-0390	1	wired
11		Sounder type SAW-6000 with base G-40S in options SAW-6101 and SAW-6106	1438-CPR-0389	1	wired
12		Input / output device, using radio links- adapter for radio detectors type ACR-4001 with short-circuit isolator	1438-CPR-0217	1	wired
13		Input / output device - Conventional line adapter type ADC- 4001M with short-circuit isolator	1438-CPR-0069	1	wired
14		Point heat detector type TUN-6000 in varieties TUN-6046 and TUN-6043 with short-circuit isolator	1438-CPR-0988	1	wired
15		Line smoke detector type DOP-6001R	1438-CPR-0219	1	wired
16		Optical smoke detector type: DOR-4043 with short-circuit isolator	1438-CPR-0014	1	wired
17		Optical smoke detector type: DOR-4046 with short-circuit isolator	1438-CPR-0013	1	wired
18		Smoke and heat detector type DOT-6000 in varieties DOT-6043, DOT-6046 with short-circuit isolator	1438-CPR-0798	1	wired
19		Short-circuit isolator – Smoke and flame detector type DPR-4046	1438-CPR-0839	1	wired

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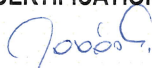
## No. 0041/2024

### SYSTEM POLON 4000 based on control and indicating equipment type POLON 4100 with cooperating devices

List of devices included in the test configuration according to test report No. 994/BA/2023 dated 04/09/2023.

No.	Manufacturer	Name	Certificate number	Component type (according to PN-EN 54-13)	Transmission path
20	Polon-Alfa S.A.	Smoke detector type DUO-6000 in varieties DUO-6046, DUO-6646, DUO-6043 with short-circuit isolators	1438-CPR-0474	1	wired
21		Universal smoke detector type DUO-6046AD with socket G-40S, sounder and short-circuit isolator	1438-CPR-0611	1	wired
22		Point detector using scattered light, transmitted light or ionization and using radio links – Universal wireless optical smoke detector type DUR-4047	1438-CPR-0216	1	radio
23		Smoke and heat detector type DUT-6046AD with socket G-40S, sounder and short- circuit isolator	1438-CPR-0618	1	wired
24		Manual call point type ROP-4007, ROP-4007H for use with radio links	1438-CPR-0471	1	radio
25		Manual call point type ROP-4001M, ROP-4001MH with short-circuit isolator	1438-CPR-0090	1	wired
26		Fire sounder type SAL-4001	1438/CPD/0028	1	wired
27		Sounder type SAW-6102 with G-40S socket	1438-CPR-0592	1	wired
28		Remote signaling and service devices – for use in construction objects – Parallel indication terminal type TSR-4000	063-UWB-0498	1	wired
29		Control and indicating equipment in smoke and heat control systems - for use in construction objects – Universal control panel type UCS 6000	063-UWB-0461	1	wired

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### SYSTEM POLON 4000 based on control and indicating equipment type POLON 4100 with cooperating devices

Technical data identifying the system:

Name of the system	SYSTEM POLON 4000 based on control and indicating equipment type POLON 4100 with cooperating devices
Software version	PSC-41 ver 2.10
Main power sources:	
Output voltage range, power supply [V AC]	230V +10% - 15 %
Maximum current consumption from the grid [A]	0,8
Output voltage range [V DC]	20 ÷ 29
Backup power source	2 batteries 12 V DC of 17 ÷ 22 Ah capacity
Characteristics of transmission path:	
Transmission path	wired, radio
Number of addressable quiescent lines	2 pcs
Maximum voltage in the quiescent current [V DC]	23,4 ÷ 24,6
Maximum resistance of the quiescent line wires:	
> addressable depending on configuration	2 x 100 Ω, 2 x 75 Ω, 2 x 45 Ω
> sided ADC-4001	2 x 25 Ω
> between two consecutive elements containing a short circuit insulator	2 x 50 Ω
Maximum wiring capacity of an addressable monitoring line, [nF]	300
Permissible current of the quiescent lines (depending on configuration):	
> at maximum wire resistance 2 x 100 Ω	20 mA
> at maximum wire resistance 2 x 75 Ω	22 mA
> at maximum wire resistance 2 x 45 Ω	50 mA

In the conformity assessment, N1 type certification scheme was applied, containing elements according to EN ISO/IEC 17067:2013

1. Selection (normative document, sampling);
2. Determination of characteristics by product testing and assessment of production conditions;
3. Review of obtained evidence of conformity;
4. Decision on certification;
5. Issuing certificate of conformity, granting the right for use;
6. Surveillance by:
  - assessment of the production process,
  - review and analysis of information about client complaints submitted to the manufacturer and assessment of undertaken corrective and preventive actions.

#### ADDITIONAL TERMS AND NOTES

During the validity period of the certificate of conformity, the Applicant is obligated to mark the product with CNBOP-PIB abbreviation and the number of this certificate.

**MANAGER OF  
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*Ewa Sobór*  
p.p. Deputy Manager  
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**DIRECTOR OF CNBOP-PIB**

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