



Date: May 17, 2022

This Certificate replaces Certificate No. DC – UAE – 0100 dated September 6, 2018

**CERTIFICATE OF COMPLIANCE**

| This certificate of compliance validates the following |  |                     |   |
|--|--|---------------------|---|
| TEST REPORT NUMBER                                     | 1. 596/BA/17<br>2. 366/BA/17<br>3. 854/BA/21<br>4. Protocol no. 854/BA/21  | CERTIFICATE NUMBER  | DC – UAE – 0100   |
| DATE OF ISSUE  | 1. July 6, 2018<br>2. November 17, 2017<br>3. September 30, 2021<br>4. July 13, 2021<br>August 3, 2021<br>August 9, 2021<br>October 21, 2021 | DATE OF ISSUE       | May 17, 2022  |
| DATE OF EXPIRY   | Not applicable   | DATE OF EXPIRY      | September 5, 2028                                       |
| Manufacturer details                                   |  |                     |   |
| NAME OF FACTORY / MANUFACTURER                         | POLON-ALFA S.A.  | NAME OF THE BRAND   | POLON-ALFA  |
| FACTORY ADDRESS / REGION                               | ul. Glinki 155<br>85-861 Bydgoszcz<br>Republic of Poland   | MODEL / NO          | DUT-6046AD  |
| WEBSITE  | www.polon-alfa.pl  | LOGO ON THE PRODUCT |   |
| TELEPHONE  | +48 52 36 39 278   | EMAIL               | export@polon-alfa.pl<br>justyna.kasierska@polon-alfa.pl |





| Product Details From Test Report                       |  |   | Reference Test Report Page No.       |  |
|--|--|---|--------------------------------------|--|
| DESCRIPTION OF THE PRODUCT                             | Smoke and heat detector type DUT-6046AD with socket G-40S, sounder and short-circuit isolator (Detailed specification below)   |   | 3<br>(596/BA/17)                     |  |
| TESTS STANDARD   | EN 54-3:2001+A1:2002+A2:2006 Fire detection and fire alarm systems – Part 3: Fire alarm devices – Sounders<br>EN 54-5:2017+A1:2018 Fire detection and fire alarm systems – Part 5: Heat detectors – Point heat detectors<br>EN 54-7:2018 Fire detection and fire alarm systems – Part 7: Smoke detectors – Point smoke detectors that operate using scattered light, transmitted light or ionization<br>EN 54-17:2005+AC:2007 Fire detection and fire alarm systems – Part 17: Short-circuit isolators |   | 7<br>(596/BA/17)<br>7<br>(854/BA/21) |  |
| TESTS DESCRIPTION                                      | Requirements, test methods and performance criteria for sounders, heat detector, point detectors using scattered light, transmitted light or ionization and short-circuit isolators  |   | 7 + 8<br>(596/BA/17)                 |  |
| SPECIFICATION OF TEST SPECIMEN                         | Type:  | DUT-6046AD  | 3 + 5<br>(596/BA/17)                 |  |
|  | Detachable detector:   | yes   |                                      |  |
|  | Connection of ancillary devices:   | yes   |                                      |  |
|  | On-site adjustment of response behaviour:  | yes   |                                      |  |
|  | Fire sensitivity:  | TF2, TF3, TF4, TF5  |                                      |  |
|  | Protection against the ingress of foreign bodies:  | Detector is designed that a sphere of diameter (1,3 ± 0,05) mm cannot pass into the sensor chamber. |                                      |  |
|  | Classification of the detector according to EN 54-5:   | A1R   |                                      |  |
|  | Sound level (1m) [dB]:   | 77,4 ± 89,3   |                                      |  |
|  | Frequency and sound pattern:   | 4000 Hz for 500ms, then 500 ms break  |                                      |  |
|  | Voice sounder:   | no  |                                      |  |
|  | Message synchronization:   | not applicable  |                                      |  |
|  | Type of work environment:  | A   |                                      |  |
|  | IP protection:   | 21 C  |                                      |  |
|  | Type of installation:  | surface ceiling mounted   |                                      |  |
|  | Supply voltage [V DC]:   | 16,5 ± 24,6   |                                      |  |
|  | Quiescent current [A]:   | ≤ 0,00015   |                                      |  |
|  | Alarm current [A]:   | < 0,02015 during LED flash in detector  |                                      |  |
|  | Maximum voltage at which the device isolates [V DC]:   | 6   |                                      |  |
|  | Minimum voltage at which the device isolates [V DC]:   | 3   |                                      |  |
|  | Maximum voltage at which the device reconnects [V DC]:   | 24,6  |                                      |  |
| Minimum voltage at which the device reconnects [V DC]: | 16,5   |   |                                      |  |
| Programming address:                                   | from control and indicating equipment (CIE)  |   |                                      |  |
| Operating temperature [°C]:                            | -10 ± +55  |   |                                      |  |
| Material of housing:                                   | plastic material   |   |                                      |  |
| Dimensions [mm]:                                       | ∅ 115 x 56 (with a socket)   |   |                                      |  |
| Mass [g]:  | 200  |   |                                      |  |
| TESTS RESULTS  | EN 54-3  | Sound level   | PASS                                 | 37 + 39<br>(596/BA/17)<br>6<br>(366/BA/17) |
|  | EN 54-3  | Frequencies and sound pattern   | PASS                                 |  |
|  | EN 54-3  | Reproducibility   | PASS                                 |  |
|  | EN 54-3  | Operational performance   | PASS                                 |  |
|  | EN 54-3  | Attention drawing signal and message broadcast sequences  | NOT APPLICABLE                       |  |
|  | EN 54-3  | Synchronisation   | NOT APPLICABLE                       |  |
|  | EN 54-3  | Broadcast message performance   | NOT APPLICABLE                       |  |
|  | EN 54-3  | Attention drawing signal/silence/message sequence timing  | NOT APPLICABLE                       |  |
|  | EN 54-3  | Message synchronisation testing   | NOT APPLICABLE                       |  |
|  | EN 54-3  | Durability  | PASS                                 |  |
|  | EN 54-3  | Construction  | PASS                                 |  |
|  | EN 54-3  | Marking and data  | PASS                                 |  |
|  | EN 54-3  | Durability  | PASS                                 |  |
|  | EN 54-3  | General testing   | NOT APPLICABLE                       |  |
|  | EN 54-3 - EN 60068-2-2   | Dry heat (operational)  | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-2   | Dry heat (endurance)  | NOT APPLICABLE                       |  |
|  | EN 54-3 - EN 60068-2-1   | Cold (operational)  | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-30  | Damp heat, cyclic (operational)   | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-78  | Damp heat, steady state (endurance)   | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-30  | Damp heat, cyclic (operational)   | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-78  | Damp heat, steady state (endurance)   | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-30  | Damp heat, cyclic (endurance)   | NOT APPLICABLE                       |  |
|  | EN 54-3 - EN 60068-2-42  | Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-27  | Shock (operational)   | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-75  | Impact (operational)  | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-6   | Vibration, sinusoidal (operational)   | PASS                                 |  |
|  | EN 54-3 - EN 60068-2-6   | Vibration, sinusoidal (endurance)   | PASS                                 |  |
|  | EN 54-3 - EN 50130-4   | Electromagnetic compatibility, immunity (operational)   | PASS                                 |  |
| EN 54-3 - EN 60529                                     | Ingress protection   | PASS  |                                      |  |





|                               |                                       |   |                |  |
|-------------------------------|---------------------------------------|---|----------------|--|
| TESTS RESULTS                 | EN 54-5                               | Position of heat sensitive element  | PASS           | 24 ÷ 37<br>(596/BA/17)<br>42 ÷ 71<br>(854/BA/21) |
|                               | EN 54-5                               | Individual alarm indication   | PASS           |  |
|                               | EN 54-5                               | Connection of ancillary devices   | PASS           |  |
|                               | EN 54-5                               | Monitoring of detachable point heat detectors   | PASS           |  |
|                               | EN 54-5                               | Manufacturing adjustments   | NOT APPLICABLE |  |
|                               | EN 54-5                               | On-site adjustment of response behaviour  | NOT APPLICABLE |  |
|                               | EN 54-5                               | Software controlled detector (when provided)  | PASS           |  |
|                               | EN 54-5                               | Directional dependence  | PASS           |  |
|                               | EN 54-5                               | Static response temperature   | PASS           |  |
|                               | EN 54-5                               | Response times from typical application temperature   | PASS           |  |
|                               | EN 54-5                               | Response times from 25°C  | NOT APPLICABLE |  |
|                               | EN 54-5                               | Response times from high ambient temperature  | PASS           |  |
|                               | EN 54-5                               | Reproducibility   | PASS           |  |
|                               | EN 54-5                               | Additional test for suffix S point heat detectors   | NOT APPLICABLE |  |
|                               | EN 54-5                               | Additional test for suffix R point heat detectors   | PASS           |  |
|                               | EN 54-5                               | Variation in supply parameters  | PASS           |  |
|                               | EN 54-5 - EN 60068-2-1                | Cold (operational)  | PASS           |  |
|                               | EN 54-5 - EN 60068-2-2                | Dry heat (endurance)  | NOT APPLICABLE |  |
|                               | EN 54-5 - EN 60068-2-30               | Damp heat, cyclic (operational)   | PASS           |  |
|                               | EN 54-5 - EN 60068-2-78               | Damp heat, steady state (endurance)   | PASS           |  |
|                               | EN 54-5 - EN 60068-2-42               | Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  | PASS           |  |
|                               | EN 54-5 - EN 60068-2-6                | Shock (operational)   | PASS           |  |
|                               | EN 54-5                               | Impact (operational)  | PASS           |  |
|                               | EN 54-5 - EN 60068-2-6                | Vibration, sinusoidal (operational)   | PASS           |  |
|                               | EN 54-5 - EN 60068-2-6                | Vibration, sinusoidal (endurance)   | PASS           |  |
|                               | EN 54-5 - EN 50130-4                  | Electromagnetic compatibility, immunity (operational)   | PASS           |  |
|                               | EN 54-7                               | Individual alarm indication   | PASS           | 11 ÷ 23<br>(596/BA/17)<br>72 ÷ 93<br>(854/BA/21) |
|                               | EN 54-7                               | Connection of ancillary devices   | PASS           |  |
|                               | EN 54-7                               | Monitoring of detachable detectors  | PASS           |  |
|                               | EN 54-7                               | Manufacturer's adjustments  | PASS           |  |
|                               | EN 54-7                               | On-site adjustment of response behaviour  | PASS           |  |
|                               | EN 54-7                               | Protection against the ingress of foreign bodies  | PASS           |  |
|                               | EN 54-7                               | Response to slowly developing fires   | PASS           |  |
|                               | EN 54-7                               | Software controlled detectors (when provided)   | PASS           |  |
|                               | EN 54-7                               | Repeatability   | PASS           |  |
|                               | EN 54-7                               | Directional dependence  | PASS           |  |
|                               | EN 54-7                               | Reproducibility   | PASS           |  |
|                               | EN 54-7                               | Air movement  | PASS           |  |
|                               | EN 54-7                               | Dazzling  | PASS           |  |
|                               | EN 54-7                               | Variation in supply parameters  | PASS           |  |
|                               | EN 54-7                               | Fire sensitivity  | PASS           |  |
|                               | EN 54-7 - EN 60068-2-1                | Cold (operational)  | PASS           |  |
|                               | EN 54-7 - EN 60068-2-2                | Dry heat (operational)  | PASS           |  |
|                               | EN 54-7 - EN 60068-2-78               | Damp heat, steady state (operational)   | PASS           |  |
|                               | EN 54-7 - EN 60068-2-78               | Damp heat, steady state (endurance)   | PASS           |  |
|                               | EN 54-7 - EN 60068-2-42               | Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  | PASS           |  |
|                               | EN 54-7 - EN 60068-2-27               | Shock (operational)   | PASS           |  |
|                               | EN 54-7 - EN 60068-2-75               | Impact (operational)  | PASS           |  |
|                               | EN 54-7 - EN 60068-2-6                | Vibration, sinusoidal (operational)   | PASS           |  |
|                               | EN 54-7 - EN 60068-2-6                | Vibration, sinusoidal (endurance)   | PASS           |  |
|                               | EN 54-7 - EN 50130-4                  | Electromagnetic compatibility, immunity (operational)   | PASS           |  |
|                               | EN 54-17                              | Reproducibility   | PASS           | 40 ÷ 44<br>(596/BA/17)                           |
|                               | EN 54-17                              | Requirements  | PASS           |  |
|                               | EN 54-17 - EN 60068-2-2               | Dry heat (operational)  | PASS           |  |
|                               | EN 54-17 - EN 60068-2-1               | Cold (operational)  | PASS           |  |
|                               | EN 54-17 - EN 60068-2-27              | Shock (operational)   | PASS           |  |
|                               | EN 54-17                              | Impact (operational)  | PASS           |  |
|                               | EN 54-17 - EN 60068-2-6               | Vibration, sinusoidal (operational)   | PASS           |  |
|                               | EN 54-17 - EN 60068-2-6               | Vibration, sinusoidal (endurance)   | PASS           |  |
|                               | EN 54-17 - EN 60068-2-30              | Damp heat, cyclic (operational)   | PASS           |  |
|                               | EN 54-17 - EN 60068-2-78              | Damp heat, steady state (endurance)   | PASS           |  |
|                               | EN 54-17 - EN 60068-2-42              | Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)  | PASS           |  |
|                               | EN 54-17                              | Variation in supply parameters  | PASS           |  |
|                               | EN 54-17 - EN 50130-4                 | Electromagnetic compatibility, immunity (operational)   | PASS           |  |
| PRODUCT APPLICATION GUIDELINE | KK-E372/09.2018<br>KK-E372/09.2018/EN | The DUT-6046AD is heat and smoke detector with integrated sounder and short-circuit isolator. It is designed for detection of visible smoke or/and rise of temperature at the very early stage of fire. The DUT-6046AD is co-operates with G-40S socket, to which the surveillance lines are connected. |                | Not applicable                                   |





| Laboratory and Certification Body Details              |  |                                     |   |
|--|--|-------------------------------------|---|
| NAME OF CERTIFICATION BODY                             | CNBOP-PIB<br>Centrum Naukowo-Badawcze<br>Ochrony Przeciwpożarowej<br>Państwowy Instytut Badawczy | NAME OF TEST FACILITY               | CNBOP-PIB<br>Zespół Laboratoriów Sygnalizacji Alarmu<br>Pożaru i Automatyki Pożarniczej                   |
| CERTIFICATION BODY<br>ADDRESS / REGION                 | ul. Nadwiślarska 213.<br>05-420 Józefów<br>REPUBLIC OF POLAND                                    | TEST FACILITY<br>ADDRESS / REGION   | ul. Nadwiślarska 213.<br>05-420 Józefów<br>REPUBLIC OF POLAND   |
| WEBSITE  | www.cnbop.pl   | WEBSITE                             | www.cnbop.pl  |
| TELEPHONE  | +48 22 769 33 47   | TELEPHONE                           | +48 22 769 32 26  |
| EMAIL  | jcw@cnbop.pl   | EMAIL                               | ba@cnbop.pl   |
| ACCREDITED BY  | Polish Centre<br>for Accreditation<br>http://www.pca.gov.pl                                      | ACCREDITED BY                       | Polish Centre<br>for Accreditation<br>http://www.pca.gov.pl   |
| AS PER   | EN ISO/IEC 17065<br>Requirements for bodies certifying<br>products, processes and services       | AS PER                              | EN ISO/IEC 17025<br>General requirements<br>for the competence of testing<br>and calibration laboratories |
| VALIDITY   | October 3, 2022  | VALIDITY                            | October 11, 2025  |
| REFERENCE NUMBER                                       | AC 063   | REFERENCE NUMBER                    | AB 207  |
| CERTIFICATION MARK                                     |              |                                     |   |
| <b>(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER</b>      |  |                                     |   |
| NAME AND SURNAME<br>OF MANUFACTURERS<br>SIGNATORY      | Dariusz Napawski<br>Robert Pestke  | SIGNATURE                           |                      |
| EMAIL / TELEPHONE                                      | +48 52 36 392 78<br>Export@polon-alfa.pl   | FACTORY OFFICIAL SEAL               | <b>POLON-ALFA S.A.</b><br>ul. Glinki 155<br>85-861 BYDGOSZCZ  |
| NOTES  | I UNDERTAKE THAT ALL DATA AND INFORMATION PROVIDED ARE GENUINE AND ACCURATE.                     |                                     |   |
| <b>(ENDORSEMENT) TO BE CERTIFICATION BODY</b>          |  |                                     |   |
| NAME AND SURNAME<br>OF CERTIFICATION BODY<br>SIGNATORY | st. bryg. dr inż. Paweł Janik  | SIGNATURE                           |                      |
| EMAIL / TELEPHONE                                      | cnbop@cnbop.pl<br>0048 227693300   | CERTIFICATION BODY<br>OFFICIAL SEAL |                      |
| NOTES  | I UNDERTAKE THAT ALL DATA AND INFORMATION PROVIDED ARE GENUINE AND ACCURATE.                     |                                     |   |

ATTACHEMENT:

COPY OF "CERTIFICATE OF CONSTANCY OF PERFORMANCE" NO. 1438-CPR-0618 ISSUED BY CERTIFICATION BODY