




Date: April 30, 2021

**This certificate replaces Certificate No. DC – UAE – 0073 dated January 31, 2018.**

### CERTIFICATE OF COMPLIANCE

| This certificate of compliance validates the following |  |                            |   |
|--|--|----------------------------|---|
| <b>TEST REPORT NUMBER</b>                              | 1. 487/BA/13<br>2. 371/BA/17<br>3. 589/BA/20                 | <b>CERTIFICATE NUMBER</b>  | DC – UAE – 0073   |
| <b>DATE OF ISSUE</b>                                   | 1. April 2, 2014<br>2. October 31, 2017<br>3. March 30, 2021 | <b>DATE OF ISSUE</b>       | April 30, 2021  |
| <b>DATE OF EXPIRY</b>                                  | Not applicable   | <b>DATE OF EXPIRY</b>      | May 21, 2024  |
| Manufacturer details                                   |  |                            |   |
| <b>NAME OF FACTORY / MANUFACTURER</b>                  | POLON-ALFA S.A.  | <b>NAME OF THE BRAND</b>   | POLON-ALFA  |
| <b>FACTORY ADDRESS / REGION</b>                        | ul. Glinki 155<br>85-861 Bydgoszcz<br>Republic of Poland     | <b>MODEL / NO</b>          | POLON 6000  |
| <b>WEBSITE</b>   | www.polon-alfa.pl  | <b>LOGO ON THE PRODUCT</b> |  |
| <b>TELEPHONE</b>                                       | +48 52 36 39 269   | <b>EMAIL</b>               | export@polon-alfa.pl<br>tomasz.piaskowski@polon-alfa.pl                               |





| Product Details From Test Report   |  | Reference Test Report Page No.  |           |
|--|--|---|-----------|
| <b>DESCRIPTION OF THE PRODUCT</b>  | Control and indicating equipment, power supply for fire detection and fire alarm systems type POLON 6000<br>(Detailed specification below)   | 3   |           |
| <b>TESTS STANDARD</b>  | EN 54-2:1997 + AC:1999 + A1:2006 Fire detection and fire alarm systems<br>– Part 2: Control and indicating equipment<br>EN 54-4:1997 + AC:1999 + A1:2002 + A2:2006 Fire detection and fire alarm systems<br>– Part 4: Power supply equipment                             | 9<br>(487/BA/13, 371/BA/17)<br>6<br>(589/BA/20)   |           |
| <b>TESTS DESCRIPTION</b>   | Requirements, test methods and performance criteria for control and indicating equipment, power supply for fire detection and fire alarm systems intended to broadcast a warning of fire between a fire detection and fire alarm system and the occupants of a building. | 9 ÷ 10<br>(487/BA/13)<br>9<br>(371/BA/17)<br>6 ÷ 7<br>(589/BA/20)   |           |
| <b>SPECIFICATION OF TEST SPECIMEN</b>  | <b>Parameters of CIE type POLON 6000</b>   |   |           |
|  | Type:  | POLON 6000  |           |
|  | Version of CIE:  | • addressable   |           |
|  | IP protection:   | IP 30   |           |
|  | Operating temperature:   | -5 °C ÷ +40 °C  |           |
|  | Dimensions (Length x Width x Height):  | basic cabinet OM-61: 445 x 177,5 x 455,5 [mm]<br>basic cabinet OM-62: 445 x 181,5 x 455,5 [mm]<br>remote signaling and service device cabinet OS-61:<br>350 x 89,5 x 336 [mm]<br>backup batteries cabinet OA-61: 445 x 199 x 682 [mm]<br>backup batteries cabinet OA-62: 445 x 199 x 552 [mm] |           |
|  | Software version:  | 1.00  |           |
|  | Main supply – supply voltage:  | 230 V AC  |           |
|  | Maximum current consumption:   | 5 A   |           |
|  | Internal working voltage:  | 24 V DC   |           |
|  | Battery charge voltage:  | 28,8 V DC   |           |
|  | Maximal internal resistance of the battery:  | 500 mΩ  |           |
|  | Detector lines: type of detector lines:  | loop or open (the choice from the level of CIE)   |           |
|  | Number of detector lines:  | loop: 396 pieces, open: 1190 pieces   |           |
|  | Maximum number of elements in the detector line:   | line 6000 – 250 pieces loop, 32 pieces open<br>line 4000 – 127 pieces loop, 32 pieces open  |           |
|  | Voltage of the detector line:  | 23,4 V DC ÷ 24,6 V DC   |           |
|  | Maximum current in stand-by mode:  | 50 mA   |           |
|  | Monitored signal lines:  | 600 pieces  |           |
|  | Inputs:  | 1200 pieces   |           |
|  | Outputs:   | 1000 pieces: 800 (1A / 24 V DC), 200 (5A / 230 V AC)  |           |
|  | <b>Parameters of integral power supply</b>   |   |           |
|  | <b>Basic data</b>  |   |           |
|  | Type:  | MZ-60-150   | MZ-60-300 |
|  | Type of power supply:  | electric  |           |
|  | Output operating current I <sub>max a</sub> :  | 3 A   | 5 A       |
|  | Output operating current I <sub>max b</sub> :  | 4 A   | 8 A       |
|  | Output circuits: range of output voltage:  | 18 V DC ÷ 29 V DC   |           |
|  | <b>Main supply</b>   |   |           |
|  | Main supply: supply voltage:   | 230 V AC  |           |
|  | Maximum current consumption:   | 2,5 A   | 5 A       |
|  | <b>Reserve supply</b>  |   |           |
|  | Power supply: battery type:  | gel 2 x 12 V DC   |           |
|  | Maximum current of battery charging:   | 3,5 A   | 7 A       |
|  | Maximal internal resistance of the battery and elements connected to the battery circuit:  | 500 mΩ  |           |
| Maximum battery capacity:  | 65 Ah  | 134 Ah  |           |
| Battery charge voltage in floating mode:   | 27,6 V DC  |   |           |
| Temperature compensation in floating mode:   | yes  |   |           |
| <b>Product components (basic and optional):</b> PSO-60, MZP-60, MGR-64, MLD-61, MLD-62, MKS-60, MPK-60, MWS-60, MWK-60, MPW-61, MLK-60, MTI-61, MTI-62, MTI-63, MTI-63 Ed. 2, MD-60, MZ-60-300, MZ-60-150, MZ-60-150, LRS-150-27,5 PLA, PMT2-150-27,5 PLA, RSP-320-27,5 PLA, PMF-320-27,5 PLA. |  |   |           |
|  |  | 3 ÷ 5<br>(487/BA/13, 371/BA/17)<br>3 ÷ 4<br>(589/BA/20)   |           |



|                                      |   |  |                |   |
|--------------------------------------|---|--|----------------|---|
| <b>TESTS RESULTS</b>                 | EN 54-2   | General requirements   | PASS           | 11 ÷ 14<br>(487/BA/13)<br>10 ÷ 19<br>(371/BA/17)<br>8 ÷ 15<br>(589/BA/20) |
|                                      | EN 54-2   | General requirements for indications   | PASS           |   |
|                                      | EN 54-2   | The fire alarm condition   | PASS           |   |
|                                      | EN 54-2   | Reception and processing of fire signals   | PASS           |   |
|                                      | EN 54-2   | Output of the fire alarm condition   | PASS           |   |
|                                      | EN 54-2   | Delay to outputs   | PASS           |   |
|                                      | EN 54-2   | Dependencies on more than one alarm signal   | PASS           |   |
|                                      | EN 54-2   | General requirements   | PASS           |   |
|                                      | EN 54-2   | General requirements for indications   | PASS           |   |
|                                      | EN 54-2   | The quiescent condition  | PASS           |   |
|                                      | EN 54-2   | The fire alarm condition   | PASS           |   |
|                                      | EN 54-2   | Fault warning condition  | PASS           |   |
|                                      | EN 54-2   | Disabled condition   | PASS           |   |
|                                      | EN 54-2   | Test condition   | PASS           |   |
|                                      | EN 54-2   | Standardized input/output interface  | NPD            |   |
|                                      | EN 54-2   | Design requirements  | PASS           |   |
|                                      | EN 54-2   | Additional design requirements for software controlled control and indicating equipments   | PASS           |   |
|                                      | EN 54-2   | Marking  | PASS           |   |
|                                      | EN 54-2 - EN 60068-2-1  | Cold (operational)   | PASS           |   |
|                                      | EN 54-2 - EN 60068-2-75   | Impact (operational)   | PASS           |   |
|                                      | EN 54-2 - EN 60068-2-6  | Vibration, sinusoidal (operational)  | PASS           |   |
|                                      | EN 54-2 - EN 60068-2-6  | Vibration, sinusoidal (endurance)  | PASS           |   |
|                                      | EN 54-2 - EN 50130-4  | Electromagnetic compatibility (EMC), immunity tests (operational)  | PASS           |   |
|                                      | EN 54-2   | Supply voltage variations  | PASS           |   |
|                                      | EN 54-2 - EN 60068-2-78   | Damp heat, steady state (operational)  | PASS           |   |
|                                      | EN 54-2 - EN 60068-2-78   | Damp heat, steady state (endurance)  | PASS           |   |
|                                      | EN 54-2   | Fault signals from points  | PASS           |   |
|                                      | EN 54-2   | Total loss of the power supply   | PASS           |   |
|                                      | EN 54-2   | Alarm counter  | PASS           |   |
|                                      | EN 54-2   | Dependencies on more than one alarm signal   | PASS           |   |
|                                      | EN 54-2   | Delay to outputs   | PASS           |   |
|                                      | EN 54-2   | Disablement of addressable points  | PASS           |   |
|                                      | EN 54-2   | Test condition   | PASS           |   |
|                                      | EN 54-2   | Output to fire alarm devices   | PASS           |   |
|                                      | EN 54-2   | Alarm transmission routing equipment   | PASS           |   |
|                                      | EN 54-2   | Output for fire protection equipment   | PASS           |   |
|                                      | EN 54-2   | Fault warning routing equipment  | PASS           |   |
|                                      | EN 54-2   | Standardized input / output interface  | NPD            |   |
|                                      | EN 54-4   | General requirements   | PASS           |   |
|                                      | EN 54-4   | Functions  | PASS           |   |
| EN 54-4                              | Materials, design and manufacture                                 | PASS   |                |   |
| EN 54-4                              | General requirements  | PASS   |                |   |
| EN 54-4                              | Functions   | PASS   |                |   |
| EN 54-4                              | Materials, design and manufacture                                 | PASS   |                |   |
| EN 54-4                              | Documentation   | PASS   |                |   |
| EN 54-4                              | Marking   | PASS   |                |   |
| EN 54-4 - EN 60068-2-1               | Cold (operational)  | PASS   |                |   |
| EN 54-4 - EN 60068-2-75              | Impact (operational)  | PASS   |                |   |
| EN 54-4 - EN 60068-2-6               | Vibration, sinusoidal (operational)                               | PASS   |                |   |
| EN 54-4 - EN 60068-2-6               | Vibration, sinusoidal (endurance)                                 | PASS   |                |   |
| EN 54-4 - EN 50130-4                 | Electromagnetic compatibility (EMC), immunity tests (operational) | PASS   |                |   |
| EN 54-4 - EN 60068-2-78              | Damp heat, steady state (operational)                             | PASS   |                |   |
| EN 54-4 - EN 60068-2-78              | Damp heat, steady state (endurance)                               | PASS   |                |   |
| <b>PRODUCT APPLICATION GUIDELINE</b> | KK-E332/09.2017<br>KK-E332/09.2017/EN                             | Control and indicating equipment with power supply equipment type POLON 6000 is used in fire detection and fire alarm systems. It is equipped with an integrated power supply. Control and indicating equipment has two 2 power sources: main supply and reserve supply. | Not applicable |   |



### Laboratory and Certification Body Details

|   |  |   |   |
|---|--|---|---|
| <b>NAME OF CERTIFICATION BODY</b>                               | CNBOP-PIB<br>Centrum Naukowo-Badawcze<br>Ochrony Przeciwpożarowej<br>Państwowy Instytut Badawczy | <b>NAME OF TEST FACILITY</b>                | CNBOP-PIB<br>Zespół Laboratoriów Sygnalizacji<br>Alarmu Pożaru<br>i Automatyki Pożarniczej                |
| <b>CERTIFICATION BODY<br/>ADDRESS / REGION</b>                  | ul. Nadwiślańska 213<br>05-420 Józefów<br>REPUBLIC OF POLAND                                     | <b>TEST FACILITY<br/>ADDRESS / REGION</b>   | ul. Nadwiślańska 213<br>05-420 Józefów<br>REPUBLIC OF POLAND  |
| <b>WEBSITE</b>  | www.cnbop.pl   | <b>WEBSITE</b>                              | www.cnbop.pl  |
| <b>TELEPHONE</b>  | +48 22 769 33 47   | <b>TELEPHONE</b>                            | +48 22 769 32 26  |
| <b>EMAIL</b>  | jcw@cnbop.pl   | <b>EMAIL</b>                                | ba@cnbop.pl   |
| <b>ACCREDITED BY</b>  | Polish Centre<br>for Accreditation<br>http://www.pca.gov.pl                                      | <b>ACCREDITED BY</b>                        | Polish Centre<br>for Accreditation<br>http://www.pca.gov.pl   |
| <b>AS PER</b>   | EN ISO/IEC 17065<br>Requirements for bodies certifying<br>products, processes and services       | <b>AS PER</b>                               | EN ISO/IEC 17025<br>General requirements<br>for the competence of testing<br>and calibration laboratories |
| <b>VALIDITY</b>   | October 3, 2022  | <b>VALIDITY</b>                             | October 11, 2021  |
| <b>REFERENCE NUMBER</b>   | AC 063   | <b>REFERENCE NUMBER</b>                     | AB 207  |
| <b>CERTIFICATION MARK</b>                                       |  |   |   |
| <b>(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER</b>               |  |   |   |
| <b>NAME AND SURNAME<br/>OF MANUFACTURERS<br/>SIGNATORY</b>      | Dariusz Nagahski<br>Robert Jętko   | <b>SIGNATURE</b>                            |   |
| <b>EMAIL / TELEPHONE</b>  | +48 52 36 39 2 48<br>export@polon-alfa.pl  | <b>FACTORY OFFICIAL SEAL</b>                | <b>POLON-ALFA S.A.</b><br>ul. Glinki 155<br>85-861 BYDGOSZCZ  |
| <b>NOTES</b>  | I UNDERTAKE THAT ALL DATA AND INFORMATION PROVIDED ARE GENUINE AND ACCURATE.                     |   |   |
| <b>(ENDORSEMENT) TO BE CERTIFICATION BODY</b>                   |  |   |   |
| <b>NAME AND SURNAME<br/>OF CERTIFICATION BODY<br/>SIGNATORY</b> | st. bryg. dr inż. Paweł Janik  | <b>SIGNATURE</b>                            |   |
| <b>EMAIL / TELEPHONE</b>  | cnbop@cnbop.pl<br>+48 22 769 33 00   | <b>CERTIFICATION BODY<br/>OFFICIAL SEAL</b> |   |
| <b>NOTES</b>  | I UNDERTAKE THAT ALL DATA AND INFORMATION PROVIDED ARE GENUINE AND ACCURATE.                     |   |   |

ATTACHEMENT:

COPY OF "CERTIFICATE OF CONSTANCY OF PERFORMANCE" NO. 1438-CPR-0374 ISSUE 3 ISSUED BY CERTIFICATION BODY