# DECLARATION OF PERFORMANCE

## No 1438-CPR-0647

**1. Unique identification code of the product-type:**

Fire alarm control panel Tiras PRIME 8L with Relay output expansion module M-OUT4R and Zone expansion module M-Z(f)

**2. Type, batch or serial number of the construction product:**

EAN 4820209571585, 4820209571622, 4820209571592

**3. Intended use or uses:**

Control and indicating equipment with power supply

**4. Name, registered trade name or registered trade mark and contact address of the manufacturer:**

Manufacturer TIRAS-12 LTD

Address 2nd Lane Khmelnytske Shosse, 8, Vinnytsia, Ukraine, 21021

**5. System or systems of assessment and verification of constancy of performance of the construction product:**

*System 1*

**6. Harmonised standards:**

EN 54-2:1997+AC:1999+A1:2006

EN 54-4:1997+AC:1999+ A1:2002+A2:2006

Notified Body CBOP-PIB No 1438 performed certification of the product under assessment System 1 and issued the EC Certificate of Constancy of Performance No 1438-CPR-0647

**7. Declared performance:**

| Essential charcteristics | Performance | Harmonised technical specification | Clause |
|---|---|---|---|
| **Performance under fire conditions** | | | |
| General requirements | Pass | EN 54-2:1997+AC:1999+A1:2006 | 4 |
| General requirements for indications | Pass | EN 54-2:1997+AC:1999+A1:2006 | 5 |
| The fire alarm condition | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7 |
| **Performance of power supply** | | | |
| General requirements | Pass | EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 4 |
| Functions | Pass | EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 5 |
| Materials, design and manufacture | Pass | EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 6 |
| **Response delay (response time to fire)** | | | |
| Reception and processing of fire signals | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.1 |
| Output of the fire alarm condition | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.7 |
| Delay to outputs | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.11 |
| Dependencies on more than one alarm signal | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.12 |
| **Operational reliability** | | | |
| General requirements | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 4<br>4 |
| General requirements for indications | Pass | EN 54-2:1997+AC:1999+A1:2006 | 5 |
| The quiescent condition | Pass | EN 54-2:1997+AC:1999+A1:2006 | 6 |
| The fire alarm condition | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7 |
| Fault warning condition | Pass | EN 54-2:1997+AC:1999+A1:2006 | 8 |
| Disabled condition | Pass | EN 54-2:1997+AC:1999+A1:2006 | 9 |
| Test condition | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 10 |
| Standardized input/output interface | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 11 |
| Design requirements | Pass | EN 54-2:1997+AC:1999+A1:2006 | 12 |
| Additional design requirements for software controlled control and indicating equipment | Pass | EN 54-2:1997+AC:1999+A1:2006 | 13 |
| Functions | Pass | EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 5 |

| Essential charcteristics | Performance | Harmonised technical specification | Clause |
|---|---|---|---|
| Materials, design and manufacture | Pass | EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 6 |
| Documentation | Pass | EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 7 |
| Marking | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 14<br>8 |
| **Durability of operational reliability, temperature resistance** | | | |
| Cold (operational) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.4<br>9.5 |
| **Durability of operational reliability, vibration resistance** | | | |
| Impact (operational) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.6<br>9.7 |
| Vibration, sinusoidal (operational) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.7<br>9.8 |
| Vibration, sinusoidal (endurance) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.15<br>9.15 |
| **Durability of operational reliability, electrical stability** | | | |
| Electromagnetic compatibility (EMC), immunity tests (operational) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.8<br>9.9 |
| Supply voltage variations | Pass | EN 54-2:1997+AC:1999+A1:2006 | 15.13 |
| **Durability of operational reliability, humidity resistance** | | | |
| Damp heat, steady state (operational) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.5<br>9.6 |
| Damp heat, steady state (endurance) | Pass | EN 54-2:1997+AC:1999+A1:2006<br>EN 54-4:1997+AC:1999+ A1:2002+A2:2006 | 15.14<br>9.14 |
| **Optional functions** | | | |
| Fault signals from points | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 8.3 |
| Total loss of the power supply | Pass | EN 54-2:1997+AC:1999+A1:2006 | 8.4 |
| Alarm counter | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 7.13 |
| Dependencies on more than one alarm signal | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.12 |
| Delay to outputs | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.11 |
| Disablement of addressable points | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 9.5 |
| Test condition | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 10 |
| Output to fire alarm devices | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.8 |
| Alarm transmission routing equipment | Pass | EN 54-2:1997+AC:1999+A1:2006 | 7.9 |
| Output to fire protection equipment | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 7.10 |
| Fault warning routing equipment | Pass | EN 54-2:1997+AC:1999+A1:2006 | 8.9 |
| Standardized input / output interface | Not applicable | EN 54-2:1997+AC:1999+A1:2006 | 11 |

**8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.**

**General Director**

Yevhen Sotskyi

**Signature**

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