

# CERTIFICATE OF CONSTANCY OF PERFORMANCE

**0905-CPR-00222**

In compliance with Regulation (EU) No 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(s)

**Product(s):** Fusion Loop Module with Diversity  
(refer to attached appendix for details and conditions)  
**Placed on the market**  
**under the name or trade mark of:** EMS Security Group Limited  
Technology House, Sea Street  
Herne Bay, Kent, CT6 8JZ  
United Kingdom

**and produced in the**  
**manufacturing plant(s):** EMS Security Group Limited (SG-15557)  
Technology House, Sea Street  
Herne Bay, Kent, CT6 8JZ  
United Kingdom

**Intended use:** Fire Safety

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

**EN 54-25:2008+AC:2012**  
**EN 54-18:2005+AC:2007**  
**EN 54-17:2005+AC:2007**

Under System 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

This certificate was first issued under **0359-CPR-00222** on **2013-08-05** and will remain valid 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

**Notified Body**  
**0905**

**Certification Manager:** Dipl.-Ing. Roland Heine  
**Date Issue:** 2020-10-07  
**Issue:** 1

**Signature:**



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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## APPENDIX TO: Certificate of Constancy of Performance 0905-CPR-00222

The details and conditions of use for the Fusion Loop Module with Diversity, placed on the market under the name or trade mark of:

**EMS Security Group Limited**  
**Technology House, Sea Street**  
**Herne Bay, Kent, CT6 8JZ**  
**United Kingdom**

To be used in accordance with the supplier's installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (*where applicable*):

**Products compliant with EN 54-17:2005, EN 54-18:2005 and EN 54-25:2008**

| Model       | Manufacturing Location | Description                                         |
|-------------|------------------------|-----------------------------------------------------|
| FCX-532-001 | SG-15557               | Fusion Loop Module with Diversity with Wire Aerials |
| FCX-532-002 | SG-15557               | Fusion Loop Module with Diversity with SMA Aerials  |

### Conditions of use:

Suitable for indoor applications

### General Notes:

1. Evaluated under Intertek project number 100742793.
2. No CE or other type approval is made or inferred outside of the attestation of conformity and the product performance as stipulated on this certificate.

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| Table of performance for EN54-17:2005<br>Harmonised technical specification                                                             |             |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|
| Essential characteristics                                                                                                               | Performance | Requirement clauses in this European standard |
| Performance under fire conditions                                                                                                       | PASS        | 5.2 (See note 1)                              |
| Operational reliability                                                                                                                 | PASS        | 4                                             |
| Durability of operational reliability, Temperature resistance                                                                           | PASS        | 5.4, 5.5                                      |
| Durability of operational reliability, Vibration resistance                                                                             | PASS        | 5.9 to 5.12                                   |
| Durability of operational reliability, Humidity resistance                                                                              | PASS        | 5.6, 5.7                                      |
| Durability of operational reliability, Corrosion resistance                                                                             | PASS        | 5.8                                           |
| Durability of operational reliability, Electrical stability                                                                             | PASS        | 5.3, 5.13                                     |
| 1 This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices. |             |                                               |

| Table of performance for EN54-18:2005<br>Harmonised technical specification                                                       |             |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|
| Essential characteristics                                                                                                         | Performance | Requirement clauses in this European standard |
| Response delay (response time)                                                                                                    | PASS        | 5.2 (See note 1)                              |
| Performance under fire conditions                                                                                                 | PASS        | 5.1.4                                         |
| Operational reliability                                                                                                           | PASS        | 5.1.4                                         |
| Durability of operational reliability, Temperature resistance                                                                     | PASS        | 5.3, 5.4                                      |
| Durability of operational reliability, Vibration resistance                                                                       | PASS        | 5.8 to 5.11                                   |
| Durability of operational reliability, Humidity resistance                                                                        | PASS        | 5.5, 5.6                                      |
| Durability of operational reliability, Corrosion resistance                                                                       | PASS        | 5.7                                           |
| Durability of operational reliability, Electrical stability                                                                       | PASS        | 5.2, 5.12                                     |
| 1 Response delays may not be a function of the input/output device, in which case no assessment is made as part of this standard. |             |                                               |

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| Table of performance for EN54-25:2008<br>Harmonised technical specification                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| Essential characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Performance | Requirement clauses in this European standard                                                                                   |
| Performance parameters under fire conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PASS        | 4.1, 4.2.2, 5.2, 8.3.7 (see note a)                                                                                             |
| Response delay (response time to fire)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PASS        | 8.2.3, 8.2.6 (see note a)                                                                                                       |
| Operational reliability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PASS        | 4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8 (see note b), 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.5, 8.3.6 |
| Durability of operational reliability, Temperature resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PASS        | 8.3.9 (see note c), 8.3.10 (see note c), 8.3.11                                                                                 |
| Durability of operational reliability, Vibration resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PASS        | 8.3.16 (see note c), 8.3.17 to 8.3.19                                                                                           |
| Durability of operational reliability, Humidity resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PASS        | 8.3.12 (see note d), 8.3.13 (see note e), 8.3.14                                                                                |
| Durability of operational reliability, Corrosion resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PASS        | 8.3.15 (see note c)                                                                                                             |
| Durability of operational reliability, Electrical stability                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PASS        | 8.3.20                                                                                                                          |
| <p>a The products covered by this standard are assumed to enter the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is no requirement to function when exposed to direct attack from fire.</p> <p>b Only applicable to components required to indicate loss of communication or to transmit this information to the CIE.</p> <p>c Not applicable for CIE.</p> <p>d Not applicable for CIE and smoke detectors.</p> <p>e Only applicable for CIE and smoke detectors.</p> |             |                                                                                                                                 |

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