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## LIFE SAFETY AND SECURITY DEPARTMENT

### EMS Security Group Limited SmartCell Series Fire Detection and Alarm System

EN54-13:2005

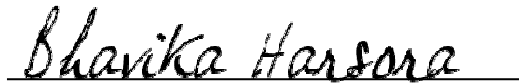
Fire detection and fire alarm systems – Part 13: Compatibility assessment of system components

### Intertek Report No. 101856404LHD-021

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## 1 Summary and Conclusion

Compatibility testing between the EMS Security Group Limited - SmartCell range control and indicating equipment and a number of SmartCell products was carried out in accordance with EN54-13:2005. The transmission path of the Fire Detection and Alarm System (FDAS) is radio linked so testing was limited to assessing compatibility of devices connected to the CIE via the wireless network.

The EMS Security Group Limited - SmartCell range control and indicating equipment and SmartCell products assessed were found to meet the requirements of EN54-13:2005.

## 2 References

EN54-13:2005 Fire detection and fire alarm systems – Part 13: Compatibility assessment of system components. European Committee for Standardization, Management Centre: rue de Stassart, 36 B-1050 Brussels.

Intertek Test Report 101317801LHD-012, (SmartCell Control and Indicating Equipment evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-014, (SmartCell Sounder evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-004a, (SmartCell Power Supply Equipment evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-015, (SmartCell Heat Detector evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-016, (SmartCell Smoke Detector evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-011, (SmartCell Manual Call Point evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-017/1, (SmartCell Dual Input Dual Output Device evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-019, (SmartCell Visual Alarm Devices evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

Intertek Test Report 101317801LHD-020, (SmartCell Radio evaluation). Intertek Testing and Certification, Unit D Imperial Park, Randalls Way, Leatherhead, Surrey, KT22 7TA, United Kingdom.

### **3 General Information**

#### **3.1 Purpose**

This report covers the evaluation of the EMS Security Group Limited - SmartCell range control and indicating equipment and SmartCell products in accordance with EN54-13:2005.

The test report contains all the information regarding the submitted product as detailed in the test report and the testing to which it was subjected to. The results relate only to the samples tested and detailed in the test report.

#### **3.2 Origin of request**

The evaluation was requested by 500558408 Intertek quotation acceptance on the 09/10/2014. The evaluation was carried out in accordance with the test schedule associated with the project number G101856404.

#### **3.3 Test plan**

Testing was carried out in accordance with the following test schedule:  
EN54-13 Test Plan - Rev 2 20.12.2019

#### **3.4 Expressed opinions**

Where the product is being evaluated, the project personnel conducting the test in some cases may express an opinion. The expressed opinion, while relevant to the product at the time of the evaluation being conducted, it is by no means the view or opinion of the relevant standards body. The opinion is also outside the scope of the Intertek UKAS accreditation.

#### **3.5 Test House Accreditation**

Intertek testing laboratory operates under UKAS accreditation to EN 17025, product specific accreditation is available on request.

#### **3.6 Client details**

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

#### **3.7 Sub-contractor information**

There were no sub-contractors used during this evaluation.

#### **3.8 Test dates**

Testing Commenced on 06<sup>th</sup> December 2019.  
Tests were completed on 22<sup>nd</sup> January 2020.

## 4 Submitted Product Information

This section contains all the relevant information regarding the product submitted for testing, any ancillary equipment and any support equipment necessary to carry out testing.

### 4.1 Description of the Product

This evaluation covers the following components of the SmartCell Series Fire detection and alarm system. Due to similarities between some products not all these components were required for physical testing.

### 4.2 FDAS Specification

Description	Part Number	Type	Report number
<b>CONTROL AND INDICATING EQUIPMENT</b>			
SmartCell Wireless Control Panel	SC-11-1200	Type 1	EN54-2: 101317801LHD-012 EN54-25: 101317801LHD-020
SmartCell Wireless Control Panel (24V d.c. Version)	SC-11-2200	Type 1	
SmartCell Wireless Control Panel (without communication card)	SC-11-1201	Type 1	
SmartCell Wireless Control Panel (24V d.c. version without communication card)	SC-11-2201	Type 1	
<b>DETECTORS</b>			
SmartCell Dual Smoke/Heat Detector	SC-21-0200	Type 1	EN54-5: 101317801LHD-015 EN54-7: 101317801LHD-016 EN54-25: 101317801LHD-020
SmartCell Dual Smoke/Heat Detector and Combined Sounder	SC-22-0200	Type 1	EN54-3: 101317801LHD-014 EN54-5: 101317801LHD-015 EN54-7: 101317801LHD-016 EN54-25: 101317801LHD-020
SmartCell Dual Smoke/Heat Detector and Combined Sounder-Beacon (White Flash)	SC-23-0220	Type 1	EN54-3: 101317801LHD-014 EN54-5: 101317801LHD-015 EN54-7: 101317801LHD-016 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
<b>SOUNDERS</b>			
SmartCell Red Sounder	SC-31-0100	Type 1	EN54-3: 101317801LHD-014 EN54-25: 101317801LHD-020
SmartCell White Sounder	SC-31-0200	Type 2	EN54-3: 101317801LHD-014 EN54-25: 101317801LHD-020
SmartCell Red Sounder and Ceiling Beacon (White Flash)	SC-33-0120	Type 1	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell Red Sounder and Wall Beacon (White Flash)	SC-32-0120	Type 1	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell White Sounder and Ceiling Beacon (White Flash)	SC-33-0220	Type 1	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell White Sounder and Wall Beacon (White Flash)	SC-32-0220	Type 1	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
<b>INPUT OUTPUT DEVICES</b>			
SmartCell Dual Input Dual Output Device for Fire Zones	SC-41-0200	Type 1	EN54-18: 101317801LHD-017/1 EN54-25: 101317801LHD-020
SmartCell Contact Transmitter and Input Device for Information Zones	SC-43-0200	Type 2	Not Applicable

Description	Part Number	Type	Report number
<b>MANUAL CALL POINTS</b>			
SmartCell Fire Manual Call Point	SC-51-0100	Type 1	EN54-11: 101317801LHD-011 EN54-25: 101317801LHD-020
SmartCell Information Manual Call Point	SC-52-0200	Type 2	Not Applicable
<b>ANCILLIARY EQUIPMENT</b>			
Universal PSU (SmartCell variant)	SC-60-1000	Type 1	EN54-4: 101317801LHD-004a

## 5 Materials submitted for evaluation

### 5.1 Equipment submitted

The SmartCell CIE and range of products were submitted as part of the EN54 approval at Intertek the exact submission dates can be found in the following reports:

Description	Part Number	Report number
SmartCell Wireless Control Panel	SC-11-1200	EN54-2: 101317801LHD-012 EN54-25: 101317801LHD-020
SmartCell Wireless Control Panel (24V d.c. Version)	SC-11-2200	
SmartCell Wireless Control Panel (without communication card)	SC-11-1201	
SmartCell Wireless Control Panel (24V d.c. version without communication card)	SC-11-2201	
SmartCell Dual Smoke/Heat Detector	SC-21-0200	EN54-5: 101317801LHD-015 EN54-7: 101317801LHD-016 EN54-25: 101317801LHD-020
SmartCell Dual Smoke/Heat Detector and Combined Sounder	SC-22-0200	EN54-3: 101317801LHD-014 EN54-5: 101317801LHD-015 EN54-7: 101317801LHD-016 EN54-25: 101317801LHD-020
SmartCell Dual Smoke/Heat Detector and Combined Sounder-Beacon (White Flash)	SC-23-0220	EN54-3: 101317801LHD-014 EN54-5: 101317801LHD-015 EN54-7: 101317801LHD-016 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell Red Sounder	SC-31-0100	EN54-3: 101317801LHD-014 EN54-25: 101317801LHD-020
SmartCell White Sounder	SC-31-0200	EN54-3: 101317801LHD-014 EN54-25: 101317801LHD-020
SmartCell Red Sounder and Ceiling Beacon (White Flash)	SC-33-0120	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell Red Sounder and Wall Beacon (White Flash)	SC-32-0120	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell White Sounder and Ceiling Beacon (White Flash)	SC-33-0220	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell White Sounder and Wall Beacon (White Flash)	SC-32-0220	EN54-3: 101317801LHD-014 EN54-23: 101317801LHD-019 EN54-25: 101317801LHD-020
SmartCell Dual Input Dual Output Device for Fire Zones	SC-41-0200	EN54-18: 101317801LHD-017/1 EN54-25: 101317801LHD-020
SmartCell Contact Transmitter and Input Device for Information Zones	SC-43-0200	Not Applicable
SmartCell Fire Manual Call Point	SC-51-0100	EN54-11: 101317801LHD-011 EN54-25: 101317801LHD-020
SmartCell Information Manual Call Point	SC-52-0200	Not Applicable
Universal PSU (SmartCell variant)	SC-60-1000	EN54-4: 101317801LHD-004a

The products submitted were found to be representative of production/pre-production standard. The products were noted as having no signs of visible damage.

## 5.2 Documentation submitted

Refer to the controlled Intertek document register(s) with regards to the product(s) submitted for details of the documentation relating to this evaluation.

## 5.3 Photographs of the submitted products

### 5.3.1 SmartCell CIE (240 Vac)



### 5.3.2 SmartCell CIE (24 Vdc)





### 5.3.3 SmartCell Type 1 Components



### 5.3.4 SmartCell Type 2 Components

