

دولة الامارات العربية المتحدة وزارة الداخلية القيادة العامة للدفاع المدني لجنة اعتماد المختبرات العالمية وبيوت الخبرة ومعاهد التدريب

Date : 2017/04/10

## **CERTIFICATE OF COMPLIANCE**

	This certificate of compliance validates the following				
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	SS16-0002359-01 SS16-0002355-01 SS16-0002355-02 SS16-0002361-01	CERTIFICATE NUMBER	SN.R000B0		
DATE OF ISSUE	2017-04-10	DATE OF ISSUE	2017-04-10		
DATE OF EXPIRY	2020-04-09	DATE OF EXPIRY	2020-04-09		
	Manufacturer details				
NAME OF FACTORY/ MANUFACTURER	SV SISTEMI DI SICUREZZA S.r.l.	NAME OF THE BRAND	SV SISTEMI DI SICUREZZA		
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY )	Via A. Cortesi 1 – 24020 Villa di Serio (BG), Italy	MODEL / NO	MINI-EXFIRE360		
WEBSITE	http://www.svsistemidisicurezza.com	LOGO ON THE PRODUCT	SISTEM DISCO		
TEL	+39 035657055	EMAIL	vincenzo.polge@sistemidisicurezza.com		



Pı	roduct Details From Test Report	<u>Reference</u> Test Report page NO
	The EUT is a Control and Indicating Equipment (c.i.e.) with integrated Power Supply Equipment (p.s.e.) intended to be used in fire detection and fire alarm systems. It consists of a box, IP30 degree of protection, containing:	SS16-0002359-01 - Page 3 and 4 SS16-0002361-01 - Page 3 and 4
	Power supply section:	0
	<ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self-consumption of the control and indicating equipment, for external devices and charger battery; No. 1 power supply used as a redundant power supply);</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20 (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 1);</li> <li>No. 1 Display touch screen type MODLCD (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> </ul>	
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	<ul> <li>and fully configurable by following parts: <ul> <li>Control panel type MASTERLCD (PCB Rev. 03);</li> <li>CPU board type EXCPU360 (PCB Rev. 2);</li> <li>CPU board type EXCPU360 (PCB Rev. 2);</li> <li>CPU board type CANBUS (PCB Rev. 2); optional, if less than 512 detectors or manual call points are used;</li> <li>Housing board for CPU board, type BUSCPU (PCB Rev. 4);</li> <li>Housing board for LCD, type FRBUS (PCB Rev. 2);</li> <li>Output board type EX80 (PCB Rev. 02);</li> <li>Output board type EX6SO (PCB Rev. 1.0h);</li> <li>Loop board type EXLOOP-E (PCB Rev. 3), optional, if input board type EX8SI (PCB Rev. 02), optional, if input board type EX8SI or EX2GSI is used;</li> <li>Input board type EX2GSI (PCB Rev. 02), optional, if input board type EX8SI or EX2GSI is used;</li> <li>Input board type EX2GSI (PCB Rev. 4), optional, if input board type EX8SI or EX2GSI is used;</li> <li>Input board type EX2GSI (PCB Rev. 4), optional, if input board type EX8SI or EXLOOP-E is used;</li> <li>Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), optional;</li> <li>Digital input/Output board type EX6EV (PCB Rev. 03), optional;</li> <li>Digital input/Output board type EX8D I/O (PCB Rev. 01), optional;</li> <li>Display touch screen type MODLCD (PCB Rev. 3);</li> <li>Supplementary acoustic local sounder trademark MENVIER CSA type FLASHNI.</li> </ul> </li> <li>Maximum number of board that can be installed: 20.</li> <li>The Control and Indicating Equipment is also provided of the following external device, optional:</li> </ul>	



<ul> <li>Remote input/output expansion type EXREMOTE PANEL with integrated Power Supply Equipment (see below), up to 16 maximum;</li> <li>Remote control panel type EXRGR (PCB Rev. 03), up to 16 maximum.</li> <li>Output power supplies distribution: <ul> <li>20 A current for self-consumption of the control and indicating equipment and for external devices;</li> <li>31 A current for hatteries recharge.</li> </ul> </li> <li>Hardware identification of CPU board type EXCPU360: NXP, LPC246878D208.</li> <li>Firmware identification of CPU board type EXCPU360: 2.0.</li> <li>The remote input/output expansion type EXREMOTE PANEL with integrated Power Supply Equipment consists of the same box of the control and indicating equipment type MINI-EXFIRE, containing:</li> </ul> <b>Power supply section:</b> <ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self-consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply;</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZA, type EXPSU20-ICD (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-ICD (PCB Rev. 3);</li> <li>No. 1 LED board type EXRED (PCB Rev. 2);</li> <li>Output board type EXRED (PCB Rev. 2);</li> <li>Input board type EXRED (PCB Rev. 0);</li> <li>Displat loutod type EXRED (PCB Rev. 0);</li> <li>Input board type EXRED (PCB Rev. 0);</li></ul>		
<ul> <li>20 A current for self-consumption of the control and indicating equipment and for external devices;</li> <li>3 A current for batteries recharge.</li> <li>Hardware identification of CPU board type EXCPU360: NXP, LPC2468FBD208.</li> <li>Firmware identification of CPU board type EXCPU360: 2.0.</li> <li>The remote input/output expansion type EXREMOTE PANEL with integrated Power Supply Equipment consists of the same box of the control and indicating equipment type MINI-EXFIRE, containing:</li> <li><b>Power supply section:</b> <ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self-consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply);</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICURE2XA, type EXPSU20-LED (PCB Rev. 3);</li> <li>No. 1 Display touch screen type MODLCD (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> <li>and fully configurable by following parts:</li> <li>Housing board type EXRO (PCB Rev. 2);</li> <li>Output board type EXRO (PCB Rev. 2);</li> <li>Output board type EXRSO (PCB Rev. 2);</li> <li>Input board type EXRSO (PCB Rev. 2);</li> <li>Input board type EXRSO (PCB Rev. 2);</li> <li>Input board type EXRSO (PCB Rev. 2);</li> <li>Dutput board type EXRSO (PCB Rev. 2);</li> <li>Display touch screen type MODLCD (PCB Rev. 0), up to 8 maximum;</li> <li>Input/Output board type EXRSO (PCB Rev. 3);</li> <li>Input board type EXRSO (PCB Rev. 3);</li> <li>Input board type EXRSO (PCB Rev. 3);</li> <li>Display touch screen type MODLCD (PCB Rev. 3);</li> <li>Digital input/Output</li></ul></li></ul>	<ul> <li>integrated Power Supply Equipment (see below), up to 16 maximum;</li> <li>Remote control panel type EXRGR (PCB Rev. 03), up to 16</li> </ul>	
<ul> <li>LPC2468FBD208.</li> <li>Firmware identification of CPU board type EXCPU360: 2.0.</li> <li>The remote input/output expansion type EXREMOTE PANEL with integrated Power Supply Equipment consists of the same box of the control and indicating equipment type MINI-EXFIRE, containing:</li> <li>Power supply section: <ul> <li>No. 2 Power supply frademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self-consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply).</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZA, type EXPSU20. (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V - 55 Ah;</li> </ul> </li> <li>and fully configurable by following parts: <ul> <li>Housing board type EXRSU20 (PCB Rev. 2);</li> <li>Output board type EXRSU (PCB Rev. 2);</li> <li>Housing board of to LCD, type FRBUS (PCB Rev. 2);</li> <li>Output board type EXRSO (PCB Rev. 0);</li> <li>Output board type EXRSO (PCB Rev. 0);</li> <li>Loop board type EXRSO (PCB Rev. 0);</li> <li>Input board type EXRSO (PCB Rev. 0);</li> <li>Input board type EXSSI (PCB Rev. 0);</li> <li>Input Doard type EXSSI (PCB Rev. 0);</li> <li>Input/Output board type EXSEV (PCB Rev. 0);</li> <li>Input/Output board type EXSEV (PCB Rev. 0);</li> <li>Digital input/Output board type EXSEV (PCB Rev. 0);</li> <li>Digital input/Output board type EXSEV (PCB Rev. 0);</li> <li>Digital input/Output board type EXSEV (PCB Rev. 0);</li> <li>Input/Output board type EXSEV (PCB Rev. 0);</li> <li>Digital input/Output board type EXSEV (PCB Re</li></ul></li></ul>	<ul> <li>20 A current for self-consumption of the control and indicating equipment and for external devices;</li> </ul>	
<ul> <li>integrated Power Supply Equipment consists of the same box of the control and indicating equipment type MINI-EXFIRE, containing:</li> <li>Power supply section: <ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self-consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply);</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20 (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 3);</li> <li>No. 1 Display touch screen type MODLCD (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> </ul> </li> <li>and fully configurable by following parts: <ul> <li>Housing board type EXRSO (PCB Rev. 2);</li> <li>Output board type EXRSO (PCB Rev. 1.0h);</li> <li>Loop board type EXSO (PCB Rev. 0);</li> <li>Output board type EXSO (PCB Rev. 0);</li> <li>Input board type EXSOS (PCB Rev. 0);</li> <li>Input board type EXGSI (PCB Rev. 0);</li> <li>Input board type EXSIS (PCB Rev. 0);</li> <li>Digital input/Output board type EXSI (PCB Rev. 0);</li> <li>Display touch screen type MODLCD (PCB Rev. 3).</li> </ul> </li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution:</li> </ul>	LPC2468FBD208.	
<ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self- consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply);</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20 (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> <li>and fully configurable by following parts:</li> <li>Housing board type CANBUS (PCB Rev. 2);</li> <li>Output board type EX8SO (PCB Rev. 2);</li> <li>Input board type EX8SO (PCB Rev. 0);</li> <li>Input board type EX6SO (PCB Rev. 0);</li> <li>Input board type EX6SO (PCB Rev. 0);</li> <li>Input board type EX6SI (PCB Rev. 0);</li> <li>Input board type EX6EV (PCB Rev. 0);</li> <li>Input/Output board type EX6EV (PCB Rev. 0);</li> <li>Digital input/Output board type EX6EV (PCB Rev. 0);</li> <li>Digital input/Output board type EX6EV (PCB Rev. 0);</li> <li>Display touch screen type MODLCD (PCB Rev. 3).</li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution:</li> </ul>	integrated Power Supply Equipment consists of the same box of the	
<ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self- consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply);</li> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20 (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> <li>and fully configurable by following parts:</li> <li>Housing board type CANBUS (PCB Rev. 2);</li> <li>Output board type EX8SO (PCB Rev. 2);</li> <li>Input board type EX8SO (PCB Rev. 02);</li> <li>Output board type EX8SI (PCB Rev. 02);</li> <li>Input board type EX8SI (PCB Rev. 02);</li> <li>Input board type EX6SI (PCB Rev. 02);</li> <li>Input/Output board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 01);</li> <li>Input/Output board type EX6EV (PCB Rev. 03);</li> <li>Digital input/Output board type EX6EV (PCB Rev. 2);</li> <li>Display touch screen type MODLCD (PCB Rev. 3).</li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution:</li> </ul>		
<ul> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20-LED (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 1);</li> <li>No. 1 Display touch screen type MODLCD (PCB Rev. 3), optional;</li> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> <li>and fully configurable by following parts:</li> <li>Housing board type CANBUS (PCB Rev. 2);</li> <li>Housing board for LCD, type FRBUS (PCB Rev. 2);</li> <li>Output board type EX8RO (PCB Rev. 02);</li> <li>Output board type EX8RO (PCB Rev. 1.0h);</li> <li>Loop board type EXLOOP-E (PCB Rev. 3);</li> <li>Input board type EX2GSI (PCB Rev. 02);</li> <li>Input/Output board type EX6EV (PCB Rev. 02), up to 8 maximum;</li> <li>Input/Output board type EX6EV (PCB Rev. 03);</li> <li>Digital input/Output board type EX8D I/O (PCB Rev. 01);</li> <li>Interface board type EXMULTIBUS (PCB Rev. 01);</li> <li>Interface board type EXMULTIBUS (PCB Rev. 3).</li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution:</li> </ul>	<ul> <li>No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self- consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant</li> </ul>	
<ul> <li>and fully configurable by following parts: <ul> <li>Housing board type CANBUS (PCB Rev. 2);</li> <li>Housing board for LCD, type FRBUS (PCB Rev. 2);</li> <li>Output board type EX8RO (PCB Rev. 02);</li> <li>Output board type EXCOP-E (PCB Rev. 1.0h);</li> <li>Loop board type EXLOOP-E (PCB Rev. 3);</li> <li>Input board type EX2GSI (PCB Rev. 02);</li> <li>Input board type EX2GSI (PCB Rev. 4);</li> <li>Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), up to 8 maximum;</li> <li>Input/Output board type EX6EV (PCB Rev. 03);</li> <li>Digital input/Output board type EX6EV (PCB Rev. 01);</li> <li>Interface board type EXMULTIBUS (PCB Rev. 2);</li> <li>Display touch screen type MODLCD (PCB Rev. 3).</li> </ul> </li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution:</li> </ul>	<ul> <li>No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20 (PCB Rev. 3);</li> <li>No. 1 LED board type EXPSU20-LED (PCB Rev. 1);</li> <li>No. 1 Display touch screen type MODLCD (PCB Rev. 3), optional;</li> </ul>	
<ul> <li>Housing board type CANBUS (PCB Rev. 2);</li> <li>Housing board for LCD, type FRBUS (PCB Rev. 2);</li> <li>Output board type EX8RO (PCB Rev. 02);</li> <li>Output board type EXLOOP-E (PCB Rev. 1.0h);</li> <li>Loop board type EXSI (PCB Rev. 3);</li> <li>Input board type EX2GSI (PCB Rev. 02);</li> <li>Input board type EX2GSI (PCB Rev. 4);</li> <li>Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), up to 8 maximum;</li> <li>Input/Output board type EX6EV (PCB Rev. 03);</li> <li>Digital input/Output board type EX8D I/O (PCB Rev. 01);</li> <li>Interface board type EXMULTIBUS (PCB Rev. 2);</li> <li>Display touch screen type MODLCD (PCB Rev. 3).</li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution:</li> </ul>	<ul> <li>No. 2 Allocable batteries rated 12 V – 55 Ah;</li> </ul>	
<ul> <li>20 A current for self-consumption of the board used and for external devices;</li> </ul>	<ul> <li>and fully configurable by following parts: <ul> <li>Housing board type CANBUS (PCB Rev. 2);</li> <li>Housing board for LCD, type FRBUS (PCB Rev. 2);</li> <li>Output board type EX8RO (PCB Rev. 02);</li> <li>Output board type EX6SO (PCB Rev. 1.0h);</li> <li>Loop board type EXLOOP-E (PCB Rev. 3);</li> <li>Input board type EX2GSI (PCB Rev. 02);</li> <li>Input board type EX2GSI (PCB Rev. 4);</li> <li>Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), up to 8 maximum;</li> <li>Input/Output board type EX6EV (PCB Rev. 03);</li> <li>Digital input/Output board type EX8ED I/O (PCB Rev. 01);</li> <li>Interface board type EXMULTIBUS (PCB Rev. 2);</li> <li>Display touch screen type MODLCD (PCB Rev. 3).</li> </ul> </li> <li>Maximum number of board that can be installed: 20</li> <li>Output power supplies distribution: <ul> <li>20 A current for self-consumption of the board used and for</li> </ul> </li> </ul>	



TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	EN 54-2: 1997 + A1: 2006 EN 54-4: 1997 + A1:2002 + A2: 2006 EN 12094-1:2003	SS16-0002359-01 - Page 1 SS16-0002355-01 - Page 1 SS16-0002355-02 - Page 1 SS16-0002361-01 - Page 1
TEST DESCRIPTION	EN 54-2: 1997 + A1: 2006 Clause 5.1 Display of functional conditions Clause 5.2 Indications on alphanumeric displays Clause 5.3 Indications on alphanumeric displays Clause 5.4 Indication of the supply of power Clause 5.4 Audible indications Clause 5.6 Additional indications Clause 7.1 Reception and processing of fire signals Clause 7.2 Indication of the fire alarm condition Clause 7.3 Indication of the zones in alarm Clause 7.4 Audible indication Clause 7.5 Other indications during the fire alarm condition Clause 7.6 Reset from the fire alarm condition Clause 7.7 Output of the fire alarm condition Clause 7.8 Output to fire alarm condition Clause 7.9 Control of fire alarm condition Clause 7.9 Control of fire alarm routing equipment (options with requirements) Clause 7.10 Dutput to fire protection equipment (option with requirements) Clause 7.12 Dependencies on more than one alarm signal (options with requirement) Clause 8.1 Reception and processing of fault signals Clause 8.2 Indication of faults Clause 8.2 Indication Clause 8.3 Fault signals from points Clause 8.4 Audible indication Clause 8.5 System fault Clause 8.7 Reset of fault indications Clause 8.9 Output to fault warning routing equipment (option with requirements) Clause 8.7 Reset of fault indications Clause 8.9 Indication of the disabled condition Clause 8.9 Dutput to fault warning routing equipment (option with requirements) Clause 9.9.1 Disabled condition/ General requirements Clause 9.2 Indication of the disabled condition Clause 9.2 Indication of the disabled condition Clause 9.5 Disablements and their indication Clause 9.5 Disablements and their indication Clause 9.5 Disablement of addressable points (options with requirements) Clause 10/10.1 Test condition/ General requirements Clause 10.2 Indication of the test condition	SS16-0002359-01 - Page 9 to 51



	Clause 10.3 Indication of zones in the test state Clause 11 Standardized input/output interface (option with requirements) Clause 12.1 General requirements and manufacturer's declarations Clause 12.2 Documentation Clause 12.3 Mechanical design requirements Clause 12.4 Electrical and other design requirements Clause 12.5 Integrity of transmission path Clause 12.6 Accessibility of indications and controls Clause 12.7 Indications by means of light emitting indicators Clause 12.7 Indications on alphanumeric displays Clause 12.9 Colours of indications Clause 12.0 Audible indications Clause 12.11Testing of indicators Clause 12.11Testing of indicators Clause 12.11Testing of indicators Clause 12.11Testing of indicators Clause 13.5.1 The storage of program and data Clause 15.2 Functional test Clause 15.4 Cold (operational) Clause 15.4 Cold (operational) Clause 15.4 Cold (operational) Clause 15.7 Vibration, sinusoidal (operational) Clause 15.8 Electromagnetic Compatibility (EMC), Immunity test (operational) Clause 15.15 Vibration, sinusoidal (endurance) ANNEX ZA - CLAUSES OF THIS EUROPEAN STANDARD ADDRESSING ESSENTIAL REQUIREMENTS OF THE CONSTRUCTION PRODUCTS OR OTHER PROVISIONS OF EU DIRECTIVES EN 544: 1997 + A1:2002 + A2: 2006 Clause 5.1 Power supply from the main power source Clause 5.2 Power supply from the standby power source (battery) Clause 5.3 Charger Clause 5.4 Deany from the main power source Clause 5.4 Power supply from the standby power source (Clause 5.4 Power supply from the standby power source Clause 5.4 Power supply from the standby power source Clause 6.1 Manufacturer's declaration Clause 6.2 Mechanical design Clause 6.3 Electrical design Clause 6.3 Electrical design Clause 6.3 Electrical design Clause 6.3 Electrical design Clause 6.4 Electroal tests (Test 1 to Test 9) Clause 9.2 Ford (operational) Clause 9.4 Environmental tests Clause 9.5 Cold (operational) Clause 9.6 Damp heat, steady state (operational)	SS16-0002355-01 - Page 8 to 25 SS16-0002355-02 - Page 7 to 24
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Clause 9.7 Impact (operational)	
Clause 9.8 Vibration, sinusoidal (operational)	CC1C 000000C1 C1
Clause 9.9 Electromagnetic Compatibility (EMC), Immunity test	SS16-0002361-01
(operational)	- Page 8 to 61
Clause 9.14 Damp heat, steady state (endurance)	
Clause 9.15 Vibration, sinusoidal (endurance)	
ANNEX ZA - CLAUSES OF THIS EUROPEAN STANDARD ADDRESSING	
ESSENTIAL REQUIREMENTS OF THE CONSTRUCTION PRODUCTS OR	
OTHER PROVISIONS OF EU DIRECTIVES	
EN 12094-1:2003	
Clause 4.3 Signal processing and indication	
Clause 4.4 Reception and processing of input triggering signals	
Clause 4.5 Transmission of extinguishing signal	
Clause 4.6 Activation of alarm devices	
Clause 4.7 Indication of the supply with power	
Clause 4.8 Activated condition	
Clause 4.9 Indication of activated condition	
Clause 4.10 Released condition	
Clause 4.11 Indication of Released condition	
Clause 4.12 Resetting of the Activated condition and the Released	
condition	
Clause 4.13 Fault warning condition	
Clause 4.14 Indication of Fault warning condition	
Clause 4.15 Disabled condition	
Clause 4.16 Indication of Disabled condition	
Clause 4.17 Delay of extinguishing signal (Option with requirements)	
Clause 4.18 Signal representing the flow of extinguishing agent	
(Option with requirements)	
Clause 4.19 Monitoring of the status of components (Option with	
requirements)	
Clause 4.20 Emergency hold device (Option with requirements)	
Clause 4.23 Manual only mode (Option with requirements)	
Clause 4.24 Triggering signals to equipment within the system (Option	
with requirements)	
Clause 4.25 Extinguishing signals to spare cylinders (Option with	
requirements)	
Clause 4.26 Triggering of equipment outside the system (Option with	
requirements)	
Clause 4.27 Emergency abort device (Option with requirements)	
Clause 4.29 Release of the extinguishing media for selected flooding	
zones (Option with requirements)	
Clause 4.30 Activation of alarm devices with different signals (Option	
with requirements)	
Clause 5/5.1 Design requirements/ General	
Clause 5.2 Mechanical design	
Clause 5.3 Manual controls	
Clause 5.4 Visible indicators	
Clause 5.5 Audible indicators	
Clause 5.6 Electrical design of components	
Clause 5.7 Circuit design	



	Clause 6/6.1 Additional design requirements for software controlled e.c.d.s./ General Clause 6.2 Software design Clause 6.3 Program monitoring Clause 6.4 Storage of program and data Clause 6.5 Monitoring of memory contentsh Clause 6.6 Software documentation Clause 7 Marking Clause 8 Documentation Clause 9.2 Functional test Clause 9.3 Environmental tests Clause 10/10.1 Evaluation of conformity/ General Clause 10.2 Initial type testing Clause 10.3 Factory production control (FPC) ANNEX ZA CLAUSES OF THIS EUROPEAN STANDARD ADDRESSING THE PROVISIONS OF THE EU CONSTRUCTION PRODUCTS DIRECTIVE	
SPECIFICATION OF TEST SPECIMEN	The EUT, provided with all the units described in the section "DESCRIPTION OF THE PRODUCT", as stated in clause 15.1 of standard EN 54-2 and in clause 9.1 of standards EN 54-4 and EN 12094-1, has been subjected to all the above mentioned tests.	SS16-0002359-01 - Page 3 and 4
TEST RESULT (SUCH AS PASSED CRITERIA/ COMPLIED TO/ DURATION/OBSERVATION/ETC)	Tests results are satisfactory	SS16-0002359-01 - Page 7 SS16-0002355-01 - Page 7 SS16-0002355-02 - Page 6 SS16-0002361-01 - Page 7
PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED INTO BE INSTALLED ATTO BE CONNECTED WITHTTO BE INSTALLED WITHTTO BE USED INNOT TO BE INSTALLED AT NOT TO BE INSTALLED WITHETC.	This product must be installed, connected up and used in accordance with current legislation and/or installation standards. The information regarding standards, specifications and design developments contained in this publication may not be up to date. Always contact us to obtain the latest information. The staff in charge of installation, commissioning and start-up of this equipment must be aware of the correct working procedures to ensure safety and proper use. The Control and Indicating Equipment will be derived directly from an electrical switchboard via a reserved line, this line will be protected by a disconnecting device in compliance with local regulations. The minimum size recommended for the earth connection is 2.5 mm2, unless otherwise specified in the respective documentation. The MINI-EXFIRE360 has a front panel with keypad, LCD, LED and function keys, this model is suitable for installation in sites where they are needed visual and manual checks. MINI-EXFIRE360 is a central analog addressable fire alarm that runs a loop which can be connected to devices of different types (sensors, input modules, output, buttons, sirens, etc.). In addition to the loop, MINI-EXFIRE360 presents supervised outputs which ensure the monitoring of the operation of the device (eg .: siren). The control center is able to identify abnormal situations and diagnose them with a wide range of signals: alarm, pre-alarm, fault, bypass, test, monitor. All signaling is indicated on the display and on	SS16-0002359-01 - Page 2 to 51 SS16-0002355-01 - Page 2 to 25 SS16-0002355-02 - Page 2 to 24 SS16-0002361-01 - Page 2 to 61



LEDs. It can be connected to central up to 16 remote control panel, for	
replication of alerts and management of emergency services at the level 2	
(silencing, reset) throughout the building. It can be connected a board that	
operates the plant gas extinguishing.	
Features:	
<ul> <li>Up to 99 zones (32 detectors and/or manuals call points for each zone);</li> </ul>	
• Switching power supply with battery charging capabilities;	
• Output to fire alarm device;	
• Output to fire alarm routing equipment;	
• Output to fire protection equipment;	
Output to fault warning routing equipment;	
• 24 V output for powering external devices.	
Other:	
• internal use;	
<ul> <li>ratings: 230 V~ +10% / -15%; 50/60 Hz; 4.5 A - Output: 25.6 V- ; 23 A;</li> </ul>	
<ul> <li>permanent connection to the mains;</li> </ul>	
<ul> <li>equipment mobility: stationary (floor mounting);</li> </ul>	
<ul> <li>Class I equipment;</li> </ul>	
Over voltage category II;	
• IP 30 protection class;	
• pollution degree PD2;	
• ambient temperature of $-5 \degree C \div +40 \degree C$ .	



دولة الامارات العربية المتحدة وزارة الداخلية القيادة العامة للدفاع المدني لجنة اعتماد المختبر آت العالمية وبيوت الخبرة ومعاهد التدريب

	Laboratory and Certification body details				
NAME OF CERTIFICATION BODY	IMQ S.p.A.	NAME OF TEST FACILITY	IMQ S.p.A.		
CERTIFICATION BODY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	I-20138 Milano -Via Quintiliano, 43	TEST FACILITY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	I-20138 Milano -Via Quintiliano, 43		
WEBSITE	www.imq.it	WEBSITE	www.imq.it		
TEL	+39 0250731	TEL	+39 0250731		
EMAIL	cecilia.cantaluppi@imq.it	EMAIL	cecilia.cantaluppi@imq.it		
ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	ACCREDIA – Ente Italiano di Accreditamento www.accredia.it	ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	ACCREDIA – Ente Italiano di Accreditamento www.accredia.it		
AS PER (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	EN ISO/IEC 17065:2012	AS PER (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	EN ISO/IEC 17025:2005		
VALIDITY (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	2021-03-09	VALIDITY (EXPIRY DATE OF LABORATORY ACCREDITATION)	2020-07-06		
REFERENCE NUMBER: (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)		REFERENCE NUMBER: (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)			
CERTIFICATION MARK					

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER				
NAME OF     Vincenzo Polge       MANUFACTURER'S     Vincenzo Polge       SIGNATORY     SIGNATURE				
EMAIL / TEL     vincenzo.polge@sistemidisicurezza.com     FACTORY OFFICIAL       +39 035657055     SEAL				
NOTES: I Undertake that all data and information provided are genuine and accurate				

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY				
NAME OF     Kernel       CERTIFICATION BODY     Mauro Casari       SIGNATORY     SIGNATURE				
EMAIL / TEL     mauro.casari@imq.it +39 025073707     CERTIFICATION BODY       OFFICIAL SEAL				
NOTES: I Undertake that all data and information provided are genuine and accurate				

## **ATTACHMENTS:**

• COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)