# Aplus<sup>⊕</sup>

APF-1979

No.

## **FIRE SAFETY CERTIFICATION**

## **PRODUCT APPROVAL**

**LGAI TECHNOLOGICAL CENTER S.A. (APPLUS),** according to the requirements of the SPC-102 Ed. 8, certifies the performances stated in the technical annex following the reference standard for:

Product range	<b>2X-A SMALL</b> CABINET CONTROL PANELS WITH UP TO 4 A OUTPUT, WITH ARITECH AND APOLLO PROTOCOLS	
Company	<b>CARRIER FIRE &amp; SECURITY B.V.</b> KELVINSTRAAT, 7 6003 DH WEERT (THE NETHERLANDS)	ΛÐ
Manufactured	CARRIER MANUFACTURING POLAND SPÓŁKA Z O. O. UL. KOLEJOWA, 24 39-100 ROPCZYCE (POLAND)	Arplus <sup>⊕</sup>
Standard Reference	EN 54-2:1997, EN 54-2:1997/AC:1999, EN 54-2:1997/A1: 2006: "Fire detection and fire alarm systems. Part 2: control and indicating equipment ". EN 54-4: 1997, EN 54-4: 1997/AC:1999, EN 54-4: 1997/A1:2002, EN 54-4:1997/A2:2006: "Fire detection and fire alarm systems. Part 4: power supply equipment". EN 54-21:2006: "Fire detection and fire alarm systems. Part 21: alarm transmission and fault warning routing equipment ".	SPC-102 APF-1979 Fire Safety Certification
Product Details and Test Report	Please check at the technical annex	

 $\ensuremath{\textbf{Renovation}}$  of the initial certificate issued on  $30^{th}$  September 2022

#### Valid until 31<sup>st</sup> July 2025

Bellaterra, 5<sup>th</sup> July 2024



This document is not valid without its technical annex, whose number coincides with the number of certificate.





Technical Annex Ed. 1 30/09/2022

#### APF-1979

#### Annexes according to EN 54-2:1997, EN 54-2:1997/AC:1999, EN 54-2:1996/A1:2006

#### FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 2: CONTROL AND INDICATING EQUIPMENT

ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)
General requirements	4.	PASS
General requirements for indications	5.	PASS
The quiescent condition	6.	PASS
The fire alarm condition	7.	PASS
Reception and processing of fire signals (see also annex C)	7.1	PASS
Output of the fire alarm condition	7.7	PASS
Output to fire alarm devices (option with requirements)	7.8	PASS <sup>1</sup>
Output to fire alarm routing equipment (option with requirements)	7.9.1	PASS <sup>2</sup>
Alarm confirmation input from fire alarm routing equipment (option with requirements)	7.9.2	$PASS^2$
Outputs to fire protection equipment (options with requirements)	7.10	PASS <sup>3</sup>
Outputs to fire protection equipment (options with requirements) - Output type A	7.10.1	PASS <sup>3</sup>
Outputs to fire protection equipment (options with requirements) - Output type B	7.10.2	PASS <sup>3</sup>
Outputs to fire protection equipment (options with requirements) - Output type C	7.10.3	PASS <sup>3</sup>
Fault monitoring of fire protection equipment (option with requirements)	7.10.4	PASS <sup>3</sup>
Delays to outputs (option with requirements)	7.11	PASS <sup>₄</sup>
Dependencies on more than one alarm signal. Type A (options with requirement)	7.12.1	PASS <sup>4</sup>
Dependencies on more than one alarm signal. Type B (option with requirements)	7.12.2	PASS⁴
Dependencies on more than one alarm signal. Type C (options with requirement)	7.12.3	PASS <sup>4</sup>
Alarm counter (option with requirements)	7.13	PASS
Fault warning condition (see also annex F)	8.	PASS
Fault signals from points (option with requirements)	8.3	NA
Total loss of the power supply (option with requirements)	8.4	PASS
Output to fault warning routing Equipment (option with requirements)	8.9	PASS
Disabled condition	9.	PASS

<sup>&</sup>lt;sup>1</sup> Excluding repeaters and control panels operating in EN 54-2 Evacuation mode or NBN mode.

<sup>4</sup> Excluding repeaters.

<sup>&</sup>lt;sup>2</sup> Excluding repeaters, control panels without fire routing, and control panels with fire routing operating in NBN mode.

<sup>&</sup>lt;sup>3</sup> Excluding repeaters and control panels without fire protection controls.



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### APF-1979

ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)
Disablement of addressable points (option with requirements)	9.5	PASS⁴
Test condition (option with requirements)	10.	PASS <sup>4</sup>
Standardized input/output interface (option with requirements –see also annex G)	11.	NA
Design requirements	12.	PASS
Additional design requirements for software controlled control and indicating equipment	13.	PASS
Marking	14.	PASS
Cold (operational)	15.4	PASS
Damp heat, steady state (operational)	15.5	PASS
Impact (operational)	15.6	PASS
Vibration, sinusoidal (operational)	15.7	PASS
Electromagnetic Compatibility (EMC)	15.8	PASS
Supply voltage variation (operational)	15.13	PASS
Damp heat, steady state (endurance)	15.14	PASS
Vibration, sinusoidal (endurance)	15.15	PASS

PASS; NPD = No Performance Determined, NA = Not Apply

#### Annex according to EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002, EN 54-4:1997/A2:2006

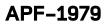
#### FIRE DETECTION AND FIRE ALARM SYSTEM. PART 4: POWER SUPPLY EQUIPMENT

ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)
General requirements	4.	PASS
Functions	5.	PASS
Materials, design and manufacture	6.	PASS
Documentation	7.	PASS
Marking	8.	PASS
Cold (operational)	9.5	PASS
Damp Heat, steady state (operational)	9.6	PASS
Impact (operational)	9.7	PASS
Vibration, sinusoidal (operational)	9.8	PASS
Electrostatic discharges (operational)	9.9	PASS
Damp heat, steady state (endurance)	9.14	PASS
Vibration, sinusoidal (endurance)	9.15	PASS

PASS; NPD = No Performance Determined, NA = Not Apply



Technical Annex Ed. 1 30/09/2022



#### Annexes according to EN 54-21:2006

## FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 21: ALARM TRANSMISSION AND FAULT WARNING ROUTING EQUIPMENT

ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)
General requirements	4.	PASS
Functional requirements	5.	PASS
Design requirements	7.	PASS
Marking	8.	PASS
Power supply	9.	PASS
Cold (operational)	10.4	PASS
Damp heat, steady state (operational)	10.5	PASS
Impact	10.6	PASS
Vibration, sinusoidal (operational)	10.7	PASS
Electromagnetic (EMC) immunity tests (operational)	10.8	PASS
Supply voltage variation	10.9	PASS
Damp heat, steady state (endurance)	10.10	PASS
Vibration, sinusoidal (endurance)	10.11	PASS

PASS; NPD = No Performance Determined, NA = Not Apply

The control and Indicating Equipment 2X-A Small cabinet series also includes:

Main Board:	2010-2MB-HP (1 Loop)
	2010-2MB-HP (2 Loop)
	2010-2MB-HP
Communication Boards:	2010-2-NB Network Printed Circuit Board
	2010-2-DACT Comm transmitter (applies only when the alarm transmission and fault warning routing equipment is installed)
PSU:	ELC-MPSU7-24100, 7.2Ah batteries
Zone indicator:	2010-2A-ZI-24-S
RS232 Kit:	2010-2-232-KIT
Translucent door:	2010-2A-D-TPS.101 Transparent front cover – Small
Fault Supervision Board:	2010FS

And the following variants:

2X-AF1-S	One-loop addressable fire alarm control panel
2X-AF1-FB-S	One-loop addressable fire alarm control panel with fire routing and fireprotection controls
2X-AF1-SCFB-S	One-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection controls [1]
2X-AF2-S	Two-loop addressable fire alarm control panel
2X-AF2-FB-S	Two-loop addressable fire alarm control panel with fire routing and fireprotection controls
2X-AF2-SCFB-S	Two-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection controls [1]
2X-AFR-S	Addressable fire alarm repeater panel
2X-AFR-FB-S	Addressable fire alarm repeater panel with fire routing and fireprotection controls

[1] Includes a fireman's key.



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

#### Date: 05/07/2024

### **CERTIFICATE OF COMPLIANCE**

This certificate of compliance validates the following				
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	22/36400396 22/36401261M1 22/36400332 22/36402351 22/36403157 22/34602744 22/36400333 22/36403312 22/36400397M1 22/36403156 22/36403963 22/36401069M1 22/36400397M1	CERTIFICATE NUMBER	APF-1979	
DATE OF ISSUE	04/07/2022 20/05/2022 03/02/2022 17/05/2022 16/09/2022 09/05/2022 14/02/2022 15/07/2022 09/09/2022 17/08/2022 14/09/2022 09/09/2022	DATE OF ISSUE	05/07/2024	
DATE OF EXPIRY		DATE OF EXPIRY	31/07/2025	
	Manufacti	urer details		
NAME OF FACTORY/ MANUFACTURER	CARRIER FIRE & SECURITY B.V.	NAME OF THE BRAND	ARITECH	
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Carrier Manufacturing Poland Spółka Z o. o. Ul. Kolejowa, 24 39-100 Ropczyce (Poland)	MODEL / NO	2X-A Small cabinet control panels with up to 4 A output	
WEBSITE	www.firesecurityproducts.com	LOGO ON THE PRODUCT		
TEL	+32 2 725 11 20	EMAIL	emea@carrier.com	





	Product Details From Test Report	Reference Test Report page NO
DESCRIPTION OF THE PODUCT Itechnical Details FROM TEST REPORT, SUCH AS ACTUAL FIRE RTINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	<ul> <li>The 2X-A series life safety control systems bring the speed and functionality of high-end intelligent processing to small to mid-sized addressable applications. Based on 2X series learned experience and with complete backwards compatibility, the new 2X-A features an attractive contemporary design that fits with any decor. With improved robustness, manufactured in metal, special plastics and easy electronics removal, it allows painting in any colour. The main controls are easily located using an improved and robust jog dial. With high power loop addressable detection, a full line of easily configured option cards and modules, as well as USB and Ethernet® connectivity, these quick-to configure systems offer versatility that benefits building owners and life safety system installers alike.</li> <li>The fire panels supplied in local language, with user interface, with 2 High Power Loops that supports up to 128 devices in 512 zones, have standard 2 supervised outputs, working in pair and dedicated to common fire and fault conditions, as well as 2 user configurable inputs for monitoring and control are available.</li> <li>The panel supports one network board to create a maximum of 64 nodes / 256 loops network of fire panels and fire panels up to a maximum of 64 conventional zones). Last but not least, in case separate zone indications are required, a 20 or a 40 zone fire/fault LED indicator board can be mounted in the panel or repeater with ample space for custom text. High loop power PAK available to increase the loop power from 500 mA to 800 mA. Compatible with existing loop devices and network compatible with existing pong devices and network compatible with existing pong betwee for S00 mA to 800 mA.</li> <li>Up to 512 zones with Fire Brigade &amp; Fire Protection controls and 300 output groups</li> <li>Up to 40 LED Zone indicators for Fire and Fault with ample text space</li> <li>Auto configuration, setup wizards and default regional setup modes</li> <li>Ethernet port with TCP/IP for remote diagnostics, main</li></ul>	22/36400396 22/36401261M1 22/36400332 22/36402351 22/36403157 22/3640333 22/36403312 22/36400397M1 22/364003963 22/36401069M1 22/36400397M1





F	Product Details From Test Report	<u>Reference</u> Test Report page NO
	<ul> <li>Integration in management software ATS8600, allowing integration with security systems and CMS</li> <li>3 operator level menu structure (20 usernames and passwords)</li> <li>Email notification for events directly from the panel (4 user accounts)</li> <li>History log memory for 9999 events</li> <li>Backwards compatible, supporting site retrofit/upgrades, expansions, replacement</li> <li>Form factor: Small</li> <li>Physical dimensions: 409 x 285 x 154 mm (W x H x D)</li> <li>Net weight: 5.2 kg (without battery)</li> <li>Shipping weight: 6.6 kg</li> <li>Colour: White (RAL 9003)</li> <li>Mounting type Surface mount</li> <li>Cable entries 18 (20 mm) / 2 (20 mm) / 2 removable plates (top / bottom / back)</li> <li>Material Steel (painted)</li> <li>ELC-MPSU7-24100, 7.2Ah batteries</li> </ul>	
<b>TEST STANDARD</b> (SUCH AS ASTM/BS EN/ DN ETC)	EN 54-2, "Fire detection and fire alarm systems. Part 2: Control and indicating equipment." EN 54-4, "Fire detection and fire alarm systems. Part 4: Power supply equipment." EN 54-21, "Fire detection and fire alarm systems. Part 21: Alarm transmission and fault warning routing equipment"	22/36400396 22/36401261M1 22/36400332 22/36402351 22/36403157 22/34602744 22/36400333 22/36403312 22/3640397M1 22/36403963 22/36401069M1 22/36400397M1
TEST DESCRIPTION	Construction and performance test of an Addressable Fire Panel	22/36400396 22/36401261M1 22/36400332 22/36402351 22/36403157 22/36400333 22/36403312 22/36400397M1 22/36403156 22/36403963 22/36401069M1 22/36400397M1

X



Product Details From Test Report				Reference Test Report page NO
SPECIFICATION OF TEST SPECIMEN	Each of the reports specifies in detail the number of specimens and supplements used to carry out each of the tests. 2X-A Small/Large cabinet control panels ZP2-A Small/Large cabinet control panels			22/36400396 22/36401261M1 22/36400332 22/36402351 22/36402744 22/36400333 22/36400331 22/36400397M1 22/36403156 22/364013963 22/36401069M1 22/36400397M1
	EN 54-2:1997, EN54-2:1997/AC:1999, EN54-2:1997/A1:2006,			
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)	22/36400396
	General requirements	4.	PASS	22/36400396 22/36401261M1
	General requirements for indications	5.	PASS	22/36400332
	The quiescent condition	6.	PASS	22/36402351
TEST RESULT	The fire alarm condition	7.	PASS	22/36403157
(SUCH AS PASSED CRITERIA/	Reception and processing of fire signals (see also annex C)	7.1	PASS	22/34602744
COMPLIED TO/ DURATION /	Output of the fire alarm condition	7.7	PASS	22/36400333 22/36403312
OBSERVATION/ETC)	Output to fire alarm devices (option with requirements)	7.8	PASS <sup>5</sup>	22/36400397M1
	Output to fire alarm routing equipment (option with requirements)	7.9.1	PASS <sup>6</sup>	22/36403156
	Alarm confirmation input from fire alarm routing equipment (option with requirements)	7.9.2	PASS <sup>2</sup>	22/36403963 22/36401069M1
	Outputs to fire protection equipment (options with requirements)	7.10	PASS <sup>7</sup>	22/36400397M1
	Outputs to fire protection equipment (options with requirements) - Output type A	7.10.1	PASS <sup>3</sup>	





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

Product Details From Test Report				
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)	
	Outputs to fire protection equipment (options with requirements) - Output type B	7.10.2	PASS <sup>3</sup>	
	Outputs to fire protection equipment (options with requirements) - Output type C	7.10.3	PASS <sup>3</sup>	
	Fault monitoring of fire protection equipment (option with requirements)	7.10.4	PASS <sup>3</sup>	
	Delays to outputs (option with requirements)	7.11	PASS <sup>4</sup>	
	Dependencies on more than one alarm signal. Type A (options with requirement)	7.12.1	PASS <sup>4</sup>	
	Dependencies on more than one alarm signal. Type B (option with requirements)	7.12.2	PASS <sup>4</sup>	
	Dependencies on more than one alarm signal. Type C (options with requirement)	7.12.3	PASS <sup>4</sup>	
	Alarm counter (option with requirements)	7.13	PASS	
	Fault warning condition (see also annex F)	8.	PASS	
	Fault signals from points (option with requirements)	8.3	NA	
	Total loss of the power supply (option with requirements)	8.4	PASS	
	Output to fault warning routing Equipment	8.9	PASS	22/36400396
	(option with requirements) Disabled condition	9.	PASS	22/36401261M1
	Disablement of addressable points (option with	9.5	PASS <sup>4</sup>	22/36400332
	requirements)			22/36402351 22/36403157
TEST RESULT SUCH AS PASSED CRITERIA /	Test condition (option with requirements) Standardized input/output interface (option with	10.	PASS <sup>4</sup>	22/34602744
COMPLIED TO/	requirements -see also annex G)	11.	NA	22/36400333
DURATION/ DBSERVATION /ETC)	Design requirements	12.	PASS	22/36403312 22/36400397M1
,,	Additional design requirements for software- controlled control and indicating equipment	13.	PASS	22/36403156
	Marking	14.	PASS	22/36403963
	Cold (operational)	15.4	PASS	22/36401069M1 22/36400397M1
	Damp heat, steady state (operational)	15.5	PASS	22,00100007111
	Impact (operational)	15.6	PASS	
	Vibration, sinusoidal (operational)	15.7	PASS	
	Electromagnetic Compatibility (EMC)	15.8	PASS	
	Supply voltage variation (operational)	15.13	PASS	
	Damp heat, steady state (endurance)	15.14	PASS	
	Vibration, sinusoidal (endurance)	15.15	PASS	
	<ul> <li><sup>1</sup> Excluding repeaters and control panels operating in</li> <li><sup>2</sup> Excluding repeaters, control panels without fire rou NBN mode.</li> <li><sup>3</sup> Excluding repeaters and control panels without fire</li> <li><sup>3</sup> Excluding repeaters.</li> <li>PASS; NPD = No Performance Determ</li> </ul>	iting, and control panels with fire protection controls.		

Acplus<sup>®</sup> LGAI Technological Center, S.A.





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

	Product Details From Tes	st Report		Reference Test Report page NO
	EN 54-4:1997, EN54-4/AC:199	9, EN54-4/A1:2002, EN54-	4/A2:2006	
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)	
	General requirements	4.	PASS	
	Functions	5.	PASS	
	Materials, design and manufacture	6.	PASS	
	Documentation	7.	PASS	
	Marking	8.	PASS	
	Cold (operational)	9.5	PASS	
	Damp Heat, steady state (operational)	9.6	PASS	
	Impact (operational)	9.7	PASS	
	Vibration, sinusoidal (operational)	9.8	PASS	
	Electrostatic discharges (operational)	9.9	PASS	
	Damp heat, steady state (endurance)	9.14	PASS	
	Vibration, sinusoidal (endurance)	9.15	PASS	
	PASS; NPD = No Performance Deterr	nined, NA = Not Apply		
	EN S	54-21:2006		
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)	
	General requirements	4.	PASS	
	Functional requirements	5.	PASS	
	Design requirements	7.	PASS	
	Marking	8.	PASS	
	Power supply	9.	PASS	
	Cold (operational) Damp heat, steady state (operational)	10.4	PASS	
	Impact	10.5	PASS	
	Vibration, sinusoidal (operational)	10.7	PASS	
	Electromagnetic (EMC) immunity tests (operational)	10.8	PASS	
	Supply voltage variation	10.9	PASS	
	Damp heat, steady state (endurance)	10.10	PASS	
	Vibration, sinusoidal (endurance) PASS; NPD = No Performance Deterr	10.11 nined, NA = Not Apply	PASS	
PRODUCT APPLICATION GUIDELINE	This product must be installed and m adhering to the CEN/TS 54-14 standa and any other applicable regulations.			22/36400396 22/36401261M1 22/36400332 22/36402351
(END USE) CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE NSTALLED N/TO BE INSTALLED	Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.22/364031 22/346027 22/364003 22/364003 22/3640039 22/3640039 22/3640039 22/3640039 22/3640031Install the control panel in a location that is free from construction dust and debris, and immune to extreme temperature ranges and humidity.22/364031 22/364031			22/36402351 22/36403157 22/364002744 22/36400333 22/36400397M1 22/364003156 22/36403963
AT/TO BE CONNECTED WITH/TO BE INSTALLED WITH ETC ALONG WITH	Provide enough floor and wall space to serviced without any obstructions. To user interface is at eye level.			22/36403963 22/36401069M1 22/36400397M1

6 لجنة اعتماد المختبرات العالمية وبيوت الخبرة ومعاهد التدريب





	Product Details From Test Report	Reference Test Report page NO
ANY WARNINGS SUCH AS NOT TO BE USED IN/NOT TO BE INSTALLED AT/ NOT TO BE INSTALLED WITHETC.	This product has been certified to EN 54-2 using the standard wall mounting installation method described below. If other mounting options are used, take care to install the panel in an area that is not subject to excessive vibration or shock. Fix the cabinet to the wall using five M4 $\times$ 30 screws and five Ø 6 mm wall plugs. Products compatible with these control panels are listed in the product compatibility list. Only those products specified in the compatibility list are guaranteed to be compatible. To download the latest product compatibility list, visit firesecurityproducts.com.	

Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	Applus - LGAI Technological Center S.A.	NAME OF TEST FACILITY	Applus - LGAI Technological Center S.A.
CERTIFICATION BODY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Campus UAB- Ronda de la Font del Carme s/n E-08193 Bellaterra, Barcelona, SPAIN	TEST FACILITY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY )	Campus UAB- Ronda de la Font del Carme s/n E-08193 Bellaterra, Barcelona, SPAIN
WEBSITE	www.applus.com	WEBSITE	www.applus.com
TEL	+34 93 567 20 00	TEL	+34 93 567 20 00
EMAIL	info@appluslaboratories.com	EMAIL	info@appluslaboratories.com
ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	ENAC	ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	ENAC
AS PER (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	EN ISO/IEC 17065	AS PER (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	EN ISO/IEC 17025
VALIDITY (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	UNLIMITED	VALIDITY (EXPIRY DATE OF LABORATORY ACCREDITATION)	UNLIMITED
<b>REFERENCE NUMBER:</b> (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	12/C-PR054	REFERENCE NUMBER: (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	Nº 9/LE894
CERTIFICATION MARK	Applus <sup>⊕</sup> laboratories		





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

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Joanna Wyrwich	SIGNATURE	pereure Wygenel
EMAIL / TEL	joanna.wyrwich@carrier.com	FACTORY OFFICIAL SEAL	Carrier Manufacturing Poland Sp. z o.o. Joanna Wyrwich Product Safety. Supplier Quality Development, Quality System Manager
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY			
NAME OF CERTIFICATION BODY SIGNATORY	Xavier Ruiz Peña	SIGNATURE	Acolus®
EMAIL / TEL	xavier.ruiz@applus.com +34 93 567 20 00	CERTIFICATION BODY OFFICIAL SEAL	LGAI Technological Center, S.A.
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)

The control and Indicating Equipment 2X-A Small cabinet series also includes:

Main Board:	2010-2MB-HP (1 Loop)		
	2010-2MB-HP (2 Loop)		
	2010-2MB-HP		
Communication Board	2010-2-NB Network Printed Circuit Board		
	2010-2-DACT Comm transmitter (applies only when the alarm transmission and fault warning		
	routing equipment is installed)		
PSU:	ELC-MPSU7-24100, 7.2Ah batteries		
Zone indicator:	2010-2A-ZI-24-S		
RS232 Kit:	2010-2-232-KIT		
Translucent door:	2010-2A-D-TPS.101 Transparent front cover – Small		
Fault Supervision Board: 2010FS			
And the following va	riants:		
2X-AF1-S	One-loop addressable fire alarm control panel		
2X-AF1-FB-S	One-loop addressable fire alarm control panel with fire routing and fireprotection controls		
2X-AF1-SCFB-S	One-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection controls [1]		
2X-AF2-S	Two-loop addressable fire alarm control panel		
2X-AF2-FB-S	Two-loop addressable fire alarm control panel with fire routing and fireprotection controls		
2X-AF2-SCFB-S	Two-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection controls [1]		
2X-AFR-S	Addressable fire alarm repeater panel		
2X-AFR-FB-S	AFR-FB-S Addressable fire alarm repeater panel with fire routing and fireprotection controls		
[1] Includes a firema	n's key.		



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