

FIRE SAFETY CERTIFICATION

PRODUCT APPROVAL

No.

APF-1980

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	2X-A LARGE CABINET CONTROL PANELS WITH UP TO 6 A OUTPUT, WITH ARITECH AND APOLLO PROTOCOLS		
Company	CARRIER FIRE & SECURITY B.V. KELVINSTRAAT, 7 6003 DH WEERT (THE NETHERLANDS)		
Manufactured	CARRIER MANUFACTURING POLAND SPÓŁKA Z O. O. UL. KOLEJOWA, 24 39-100 ROPCZYCE (POLAND)		
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".		
Product Details and Test Report	Please check at the technical annex		



Renovation of the initial certificate issued on 30th September 2022

Valid until 31st July 2025

Bellaterra, 5th 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-1980

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 ¹
Output to fire alarm routing equipment (option with requirements)	7.9.1	PASS ²
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 ³
Outputs to fire protection equipment (options with requirements) - Output type A	7.10.1	PASS ³
Outputs to fire protection equipment (options with requirements) - Output type B	7.10.2	PASS ³
Outputs to fire protection equipment (options with requirements) - Output type C	7.10.3	PASS ³
Fault monitoring of fire protection equipment (option with requirements)	7.10.4	PASS ³
Delays to outputs (option with requirements)	7.11	PASS ⁴
Dependencies on more than one alarm signal. Type A (options with requirement)	7.12.1	PASS⁴
Dependencies on more than one alarm signal. Type B (option with requirements)	7.12.2	PASS ⁴
Dependencies on more than one alarm signal. Type C (options with requirement)	7.12.3	PASS⁴
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

 $^{^{\}rm 1}$ Excluding repeaters and control panels operating in EN 54-2 Evacuation mode or NBN mode.

² Excluding repeaters, control panels without fire routing, and control panels with fire routing operating in NBN mode.

³ Excluding repeaters and control panels without fire protection controls.

⁴ Excluding repeaters.

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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 ⁴
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

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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 Large cabinet up to 6 A output series also includes:

Main Board: 2010-2MB-HP (1 Loop)

2010-2MB-HP (2 Loop)

2010-2MB-HP

Loop Board: 2X-A-LB

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)

Zone indicator: 2010-2A-ZI-20 (20 Zone)

2010-2A-ZI-40 (40 Zone)

RS232 Kit: 2010-2-232-KIT

Translucent door: 2010-2A-D-TP.101 Transparent front cover

Fault Supervision Board: 2010FS

Auxiliary boards and 2010-2-PIB-8I8O card

modules: 2010-SK Scandinavian key and lock assembly (for -SC variants)

2010-2-PS-C2 UK mains cable

2010-2-PIB Peripheral Interface Board (Germany) 2010-2-PIB-8O Peripheral Interface Board 8 outputs 2010-2-PIB-8I Peripheral Interface Board 8 inputs

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs

ADP-N3E-U IFAM interface card (master)

ADP-N3S interface card (slave)

PSU: ELC-MPSU5-24150 PSU,6.5A,24V,150W, MEANWELL with 12V, 7.2 Ah, 12 V, 12 Ah, 12 V,

18 Ah batteries.

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And the following variants:

2X-AE1 One-loop addressable fire and evacuation alarm control panel

2X-AF1 One-loop addressable fire alarm control panel

2X-AF1-FB One-loop addressable fire alarm control panel with fire routing and fireprotection controls 2X-AF1-SCFB One-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection

controls [1]

2X-AE2 Two-loop addressable fire and evacuation alarm control panel

2X-AF2 Two-loop addressable fire alarm control panel

2X-AF2-PRT Two-loop addressable fire alarm control panel with internal printer

2X-AF2-FB Two-loop addressable fire alarm control panel with fire routing and fireprotection controls 2X-AF2-FB-PRT Two-loop addressable fire alarm control panel with fire routing and fireprotection controls

and internal printer

2X-AF2-SCFB Two-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection

controls [1]

2X-AFR Addressable fire alarm repeater panel

2X-AFR-FB 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	22/36401068M1 22/36403324 22/36403963 22/36401378 22/36402352 22/36401069M1 22/36402019 22/36401387 22/36403724	22/36400397M1 22/36400332 22/36400396 22/34602744 22/36400333 22/36403156 22/36400394 22/36402016 22/36403330	CERTIFICATE NUMBER	APF-1980
DATE OF ISSUE	14/09/2022 15/07/2022 02/09/2022 20/05/2022 17/05/2022 14/09/2022 20/05/2022 02/05/2022 01/09/2022	09/09/2022 03/02/2022 04/07/2022 09/06/2022 14/02/2022 17/08/2022 15/02/2022 26/07/2022 15/07/2022	DATE OF ISSUE	05/07/2024
DATE OF EXPIRY			DATE OF EXPIRY	31/07/2025
		Manufactu	ırer details	
NAME OF FACTORY/ MANUFACTURER	CARRIER FIRE B.		NAME OF THE BRAND	ARITECH
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Carrier Manufa Spółka Ul. Kolej 39-100 Ropcz	owa, 24	MODEL / NO	2X-A Large cabinet control panels with up to 6 A output
WEBSITE	www.firesecurit	cyproducts.com	LOGO ON THE PRODUCT	ARITECH
TEL	+32 2 72	25 11 20	EMAIL	emea@carrier.com







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

	Product Details From Test Report	Reference Test Report page NO
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	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. The fire panels supplied in local language, with integrated Scandinavian Fire Brigade user interface, with 2 High Power Loops that supports up to 256 devices in 512 zones, have standard 4 supervised sounder/firerouting outputs, which can be used as freely programmable outputs as well. In addition 2 conventional relay outputs and 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. The panel supports an extra 2 High Power Loop board that brings the panel to up to 512 devices with 4 additional programmable outputs. Add a network board to create a maximum of 64 nodes / 256 loops network of fire panels and fire panel repeaters (including conventional zones). Last but not least, in case seperate 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 500mA to 800mA. Compatible with existing loop devices and network compatible with existing panels, repeaters (existing and new) and conventional panels. 1 or 2 High Power Loop with 500 mA per loop Fire Brigade	22/36401068M1 22/36403324 22/36403963 22/36401378 22/36402019 22/36401387 22/36400397M1 22/36400332 22/36400332 22/36400333 22/36400333 22/36403156 22/36403330





Easy removable door and chassis for quick and clean installation



	Product Details From Test Report	Reference Test Report page NO
	 All pluggable connectors Auxiliary 24 VDC supply output with reset support 3 USB ports with memory stick support and RS232 for printer support Communication via UltraSync cloud, using EN 54-21 UC240 UltraSync communicator Integration in management software ATS8600, allowing integration with security systems and CMS 3 operator level menu structure (20 usernames and passwords) Email notification for events directly from the panel (4 user accounts) History log memory for 9999 events Backwards compatible, supporting site retrofit/upgrades, expansions, replacement 	
	 Form factor: Large Physical dimensions: 446 x 536 x 164 mm (W x H x D) Net weight: 7.4 kg (without battery) Shipping weight: 10.1 kg Colour: White (RAL 9003) Mounting type Surface mount Cable entries 18 (20 mm) / 2 (20 mm) / 2 removable plates (top / bottom / back) Material Steel (painted) ELC-MPSU5-24150 PSU,6.5A,24V,150W, MEANWELL with 12V, 7.2 Ah, 12 V, 12 Ah, 12 V, 18 Ah batteries 	
TEST STANDARD (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"	22/36401068M1 22/36403324 22/36403963 22/36401378 22/36402352 22/36401069M1 22/36402019 22/36403724 22/36400397M1 22/36400332 22/36400396 22/34602744 22/36400333 22/36400333 22/36400333 22/36400394 22/36402016 22/36403330







	Reference Test Report page NO	
TEST DESCRIPTION	Construction and performance test of an Addressable Fire Panel	22/36401068M1 22/36403324 22/36403963 22/36401378 22/36402352 22/36401069M1 22/36403724 22/36400397M1 22/36400332 22/36400396 22/34602744 22/36400333 22/36400394 22/36400394 22/36400394 22/36402016 22/36403330
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	22/36401068M1 22/36403324 22/36403963 22/36401378 22/36402352 22/36401069M1 22/36402019 22/36403724 22/36400397M1 22/36400332 22/36400396 22/34602744 22/36400333 22/364003156 22/36400394 22/36402016 22/36403330







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

				<u>Reference</u>
				Test
Product Details From Test Report				
	Report			
	page NO			
	EN 54-2:1997, EN54-2:1997	/AC:1999, EN54-2:19	97/A1:2006,	T
	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 ⁵	
	Output to fire alarm routing equipment (option with requirements)	7.9.1	PASS ⁶	
	Alarm confirmation input from fire alarm routing	7.9.2	PASS ²	
	equipment (option with requirements) Outputs to fire protection equipment			
	(options with requirements) Outputs to fire protection equipment	7.10	PASS ⁷	
	(options with requirements) - Output type A	7.10.1	PASS ³	22/26401060M1
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)	22/36401068M1 22/36403324 22/36403963
	Outputs to fire protection equipment (options with requirements) - Output type B	7.10.2	PASS ³	22/36401378 22/36402352
	Outputs to fire protection equipment (options with requirements) - Output type C	7.10.3	PASS ³	22/36401069M1 22/36402019
TEST RESULT	Fault monitoring of fire protection equipment (option with requirements)	7.10.4	PASS ³	22/36401387
(SUCH AS PASSED CRITERIA /	Delays to outputs (option with requirements)	7.11	PASS ⁴	22/36403724
COMPLIED TO/	Dependencies on more than one alarm signal. Type A (options with requirement)	7.12.1	PASS ⁴	22/36400397M1
DURATION/	Dependencies on more than one alarm signal.	7.12.2	PASS ⁴	22/36400332
OBSERVATION/ETC)	Type B (option with requirements) Dependencies on more than one alarm signal.			22/36400396
	Type C (options with requirement)	7.12.3	PASS ⁴	22/34602744
	Alarm counter (option with requirements)	7.13	PASS	22/36400333
	Fault warning condition (see also annex F) Fault signals from points	8.	PASS	22/36403156
	(option with requirements) Total loss of the power supply (option with	8.3	NA	22/36400394
	requirements)	8.4	PASS	22/36402016
	Output to fault warning routing Equipment (option with requirements)	8.9	PASS	22/36403330
	Disabled condition	9.	PASS	
	Disablement of addressable points (option with requirements)	9.5	PASS ⁴	
	Test condition (option with requirements)	10.	PASS ⁴	
	Standardized input/output interface (option with	11.	NA NA	
	requirements –see also annex G) 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 15.8	PASS PASS	
	Electromagnetic Compatibility (EMC) Supply voltage variation (operational)	15.13	PASS	
	Supply voltage variation (operational)	15.13	rnss	

Damp heat, steady state (endurance)

Vibration, sinusoidal (endurance)





PASS

PASS

15.14

15.15



	Product Details From Te	est Report		Reference Test Report page NO
	¹ Excluding repeaters and control panels operating i ² Excluding repeaters, control panels without fire roi NBN mode. ³ Excluding repeaters and control panels without fire ³ Excluding repeaters. PASS; NPD = No Performance Detern EN 54-4:1997, EN54-4/AC:199	uting, and control panels with fire rout e protection controls. nined, NA = Not Apply 19, EN54-4/A1:2002, EN54-	ing operating in	
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	LEVEL(S) OR CLASS(ES)	
	General requirements	4.	PASS	
	Functions	5.	PASS	
	Materials, design and manufacture	6.	PASS	
	Documentation	7.	PASS	
	Marking	8.	PASS	22/36401068M1
	Cold (operational)	9.5	PASS	22/36403324
	Damp Heat, steady state (operational)	9.6	PASS	22/36403963 22/36401378 22/36402352 22/36401069M1 22/36402019 22/36401387
	Impact (operational)	9.7	PASS	
	Vibration, sinusoidal (operational)	9.8	PASS	
	Electrostatic discharges (operational)	9.9	PASS	
TEST RESULT				
(SUCH AS PASSED CRITERIA /	Damp heat, steady state (endurance) Vibration, sinusoidal (endurance)	9.14 9.15	PASS	22/36403724
COMPLIED TO/ DURATION/ OBSERVATION/ETC)	PASS; NPD = No Performance Determine EN 5	22/36400397M1 22/36400332 22/36400396 22/34602744		
	ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)	22/36400333 22/36403156
	General requirements	4.	PASS	22/36400394
	Functional requirements	5.	PASS	22/36402016
	Design requirements	7.	PASS	22/36403330
	Marking	8.	PASS	
	Power supply	9.	PASS	
	Cold (operational)	10.4	PASS	
	Damp heat, steady state (operational) Impact	10.5 10.6	PASS PASS	
	Vibration, sinusoidal (operational)	10.6	PASS	
	Electromagnetic (EMC) immunity tests	10.8	PASS	
	(operational) Supply voltage variation	10.9	PASS	
	Damp heat, steady state (endurance)	10.10	PASS	
	Vibration, sinusoidal (endurance)	10.11	PASS	
	PASS; NPD = No Performance Deterr			







	Product Details From Test Report	Reference Test Report page NO
PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN/TO BE INSTALLED AT/TO BE CONNECTED WITH/TO BE INSTALLED WITHTO BE INSTALLED WITH ANY WARNINGS SUCH AS NOT TO BE USED IN/NOT TO BE INSTALLED AT/ NOT TO BE INSTALLED WITHETC.	This product must be installed and maintained by qualified personnel adhering to the CEN/TS 54-14 standard (or the corresponding national standard) and any other applicable regulations. 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. Install the control panel in a location that is free from construction dust and debris, and immune to extreme temperature ranges and humidity. Provide enough floor and wall space to allow the control panel to be installed and serviced without any obstructions. The cabinet should be mounted so that the user interface is at eye level. 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 × 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.	22/36401068M1 22/36403324 22/36403963 22/36401378 22/36402352 22/36401069M1 22/36402019 22/36403724 22/36400397M1 22/36400332 22/36400332 22/36400333 22/3640333 22/3640333







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		
REFERENCE NUMBER: (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 (Haboratories			







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	peaux Wyseurl		
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	Arolus [®]		
EMAIL / TEL	<u>xavier.ruiz@applus.com</u> +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 Large cabinet up to 6 A output series also includes:

Main Board: 2010-2MB-HP (1 Loop)

2010-2MB-HP (2 Loop)

2010-2MB-HP

Loop Board: 2X-A-LB

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)

Zone indicator: 2010-2A-ZI-20 (20 Zone)

2010-2A-ZI-40 (40 Zone)

RS232 Kit: 2010-2-232-KIT

Translucent door: 2010-2A-D-TP.101 Transparent front cover

Fault Supervision Board: 2010FS

Auxiliary boards and 2010-2-PIB-8I8O card

modules: 2010-SK Scandinavian key and lock assembly (for -SC variants)

2010-2-PS-C2 UK mains cable

2010-2-PIB Peripheral Interface Board (Germany) 2010-2-PIB-8O Peripheral Interface Board 8 outputs 2010-2-PIB-8I Peripheral Interface Board 8 inputs

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs

ADP-N3E-U IFAM interface card (master)

ADP-N3S interface card (slave)

PSU: ELC-MPSU5-24150 PSU,6.5A,24V,150W, MEANWELL with 12V, 7.2 Ah, 12 V, 12 Ah, 12 V,

18 Ah batteries.







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

And the following variants:

2X-AE1	One-loop addressable fire and evacuation alarm control pane	~I
2X-ACT	One-1000 addressable life and evacuation alarm control bank	eı.

2X-AF1 One-loop addressable fire alarm control panel

2X-AF1-FB One-loop addressable fire alarm control panel with fire routing and fireprotection controls 2X-AF1-SCFB One-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection

controls [1]

2X-AE2 Two-loop addressable fire and evacuation alarm control panel

2X-AF2 Two-loop addressable fire alarm control panel

2X-AF2-PRT Two-loop addressable fire alarm control panel with internal printer

2X-AF2-FB Two-loop addressable fire alarm control panel with fire routing and fireprotection controls
2X-AF2-FB-PRT Two-loop addressable fire alarm control panel with fire routing and fireprotection controls

and internal printer

2X-AF2-SCFB Two-loop addressable SS 3654 fire alarm control panel with fire routingand fire protection

controls [1]

2X-AFR Addressable fire alarm repeater panel

2X-AFR-FB Addressable fire alarm repeater panel with fire routing and fireprotection controls

[1] Includes a fireman's key.



