

CERTIFICATE OF COMPLIANCE FOR THE UNITED ARAB EMIRATES

This certificate of compliance validates the following

TEST REPORT NUMBER:	TE 217423	CERTIFICATE NUMBER:	UAE-130
DATE OF ISSUE:	09/12/2005	DATE OF ISSUE:	03/11/2014
DATE OF EXPIRY:	09/12/2015	DATE OF EXPIRY:	03/11/2015

NAME OF FACTORY/ MANUFACTURER:	United Technologies Safety System Co., Ltd	NAME OF THE BRAND:	ZITON / EDWARDS	CERTIFICATION MARK:
FACTORY ADDRESS/ REGION:	No. 80 CHANGJIANG EAST ROAD, QETDZ, QINHUANGDAO, HEBEI, CHINA 066004 Tel: +86 21 6331 1052 E-mail: asiasales.gst@fs.utc.com	MODEL/NO:	A45E-2, EA45E-2 A50E-2, EA50E-2	
		LOGO ON THE PRODUCT:	 	

DESCRIPTION OF THE PRODUCT:

Analogue addressable single input module, commercial reference "A45E-2" and "EA45E-2"

- Addressable input interface unit
- Low profile
- Monitors input circuit wiring for open or short circuits faults
- 40 gr weight

Analogue addressable line relay module, commercial reference "A50E-2" and "EA50E-2"

- Addressable interface unit
- Low profile
- Loop wired, adjacent to equipment to be switched
- Volt free, change over contacts
- 40 gr weight

TEST STANDARD:

EN 54-18, "Fire detection and fire alarm systems. Input/output devices"

TEST DESCRIPTION:

Construction and performance test of a single interface module and a line relay module

SPECIFICATION OF TEST SPECIMEN:

30 Ziton single input line relay module, commercial reference "A45E-2"
 30 Ziton single output line relay module, commercial reference "A50E-2"

TEST RESULT:

	Standard	Test report number	Test result
Functional test	EN 54-18	TE 217423	PASSED
Performance and variation in supply parameters	EN 54-18	TE 217423	PASSED
Dry heat (operational)	EN 54-18	TE 217423	PASSED
Cold (operational)	EN 54-18	TE 217423	PASSED
Damp heat, cyclic (operational)	EN 54-18	TE 217423	PASSED
Damp heat, steady state (endurance)	EN 54-18	TE 217423	PASSED
Sulphur dioxide (SO2) corrosion (endurance)	EN 54-18	TE 217423	PASSED
Shock (operational)	EN 54-18	TE 217423	PASSED
Impact (operational)	EN 54-18	TE 217423	PASSED
Vibration, sinusoidal (operational)	EN 54-18	TE 217423	PASSED
Vibration, sinusoidal (endurance)	EN 54-18	TE 217423	PASSED
Electromagnetic Compatibility (EMC) Immunity tests	EN 54-18	TE 217423	PASSED

NAME OF TEST FACILITY: Applus+ LGAI Technological Center

TEST FACILITY ADDRESS/REGION: Campus UAB- Ronda de la Font del Carme, s/n, 08193 Bellaterra, Barcelona, SPAIN.

TEST FACILITY CONTACT: Jordi Carceller | jordi.carceller@applus.com | Phone: +34 93 567 20 00

PRODUCT APPLICATION GUIDELINE (END USE):

A45E-2: Analogue addressable single input module designed for installation within the enclosures of equipment associated with fire detection systems

A50E-2: Addressable relay providing single pole, volt free, change over contacts, ideal for the control of associated system equipment such as door release circuits, or the emergency shutdown of high risk services.

SIGNED BY:


 LGAI Technological Center, S.A.
Xavier Ruiz Peña
 Director- Product Conformity B.U

The above certificate is valid only when installed in accordance with the "Application guideline". To verify the validity of the product please log into our website at <https://apps.applus.com/microsites/microsites/FECIP/login> and type in the TEST CERTIFICATE NUMBER.

ACCREDITED BY: ENAC

AS PER: UNE-EN- ISO/IEC 17025:2005 (CGA- ENAC- LEC)

VALIDITY: UNLIMITED

REFERENCE NUMBER: n° 9/LE 894, n° 9/LE 895, n° 9/LE 776, n° 9/LE 1126

LIST OF ACCREDITED TESTS

FIRE RESISTANCE TESTING

Partitions:

EN 1363-1: *Fire Resistance, general requirements*
EN 1364-1: *Non-load bearing walls*
EN 1364-2: *False ceilings*
EN 1364-3-4: *Curtain walling*
EN 1365-1: *Load bearing walls*
EN 1365-2: *Floors and roofs*
EN 1365-3: *Beams*
EN 1365-4: *Pillars*
EN 1365-5: *Balconies and walkways*
EN 1365-6: *Stairs*
EN 1634-1: *Doors and gap closing elements and openable window.*
EN 1634-3: *Smoke control test for door and shutters*
EN 81-58: *Lift doors*
EN 14470-1: *Safety cabinets for flammable liquids*

Equipments and services :

EN 1366-1: *Ducts*
EN 1366-2: *Fire dampers*
EN 1366-3: *Penetration seals*
EN 1366-4: *Linear joint seals*
EN 1366-5: *Service ducts and shafts*
EN 1366-6: *Raised access and hollow core floors*
EN 1366-7: *Conveyor systems and their closures*
EN 1366-8: *Smoke extraction ducts.*
EN 1366-9: *Single comp. smoke extraction ducts*
EN 1366-10: *Smoke dampers*
EN 1366-11: *Fire protection systems for cable*
EN 12101-1: *Smoke Barriers*
EN 12101-2: *Natural smoke & heat exhaust ventilators*
EN 12101-3: *Fans*
ASTM E2816-12: *HVAC ducts fire resistance*

Protective structure and materials:

Pr EN 13381-1: *Horizontal protective membranes*
ENV 13381-2: *Vertical protective membranes*
ENV 13381-3: *Protection of concrete members*
ENV 13381-4: *Protection of steel structures*
Pr EN 13381-4: *Protection of steel structures*
ENV 13381-5: *Concrete/profiled sheet composite*
ENV 13381-6: *Concrete filled hollow steel columns*
ENV 13381-7: *Protection of wood structures*
EN 13381-8: *Protection of steel structure*
EN 14135: *Coverings - Determination of fire prot. ability*

Product Classification

EN 13501-2 +A1: *Fire class. of construction products and building elements excluding ventilation services*
UNE-EN 13501-3+A1: *Fire classification of fire resisting ducts and fire dampers*
EN 13501-4+A1: *Fire class. of smoke control systems*
UNE-EN 13501-5: *Fire classification of construction products and building elements: external fire exposure to roofs tests*
UNE-EN 14600 : *Doorsets and openable windows with fire resisting and/or smoke control characteristics - Requirements and classification*

Other standards and Products

EN15659: *Secure storage units. Classification and test methods*
ASTM E119-08a-09a- 12a-: *Building construction and materials*
ASTM E814-8b-09-11a: *Fire resistance. Penetration seals*
ASTM E 2226- 08: *Hose stream*
BS 476-20-21-22-23-24: *Elements of construction*
UL 9: *Window assemblies*
UL 10B: *Fire tests to door assemblies*

UL 10C: *Door assemblies: Positive Pressure fire Tests*
UL 10D: *Fire protective curtains*
UL 155: *Vault & file room doors*
UL 263: *Building construction & materials*
UL 555: *Fire dampers*
UL 1479: *Through-penetration firestops*
UL 1724: *Electrical circuit protective system*
UL 1784: *Door assemblies: Leakage*
UL 2196: *Resistive cables*
MSC.61 part 3: *Fire test to marine equipment*
IMO Res. A754 (18) and 307(88), IMO 2010 FTP code part 3

FIRE DETECTION AND FIRE ALARM SYSTEMS

EN 54-2 / UNE-23007-2: *Control and indicating equipment*
EN 54-4 / UNE-23007-4: *Power supply equipment*
EN 54-3: *Sounders for fire detections and fire alarms*
EN 54-5: *Heat detectors*
EN-54-7: *Smoke detectors*
EN 54-11: *Manual call points*
EN 54-13: *Compatibility Assessment of system components*
EN 54-16 *Voice alarm control and indicating equipment*
EN 54-17: *Short-circuit*
EN 54-18: *Input/output devices*
EN-54-23: *Visual alarm devices*
EN 54-24: *Smoke alarm by voice*
EN 12094-1: *Requirements and test methods for electrical automatic control and delay devices*
EN-14604: *Smoke alarm devices*
EN-23007-2: *Control and indicating equipment*
EN-23007-4: *Power supply equipment*

FIRE REACTION TESTING

Textiles and Furniture:

EN 14115: *Materials for marquees, large tents and related products. Ease of ignition.*
EN 1021-1: *Upholstered furniture. Flammability assessment Ignition source: smoldering cigarette*
EN 1021-2: *Upholstered furniture. Flammability assessment Ignition source: equivalent to a match*
EN 1101:1996, EN 1101:96/A1, EN ISO 6940: *Curtains and window coverings, Ease of ignition of vertically positioned specimens (small flame)*
EN 1102, EN ISO 6941: *Curtains and window cov. Flame propagation of vertically specimens*
EN 13772: *Curtains and window coverings. Flame propagation of vertically positioned specimens (large ignition source)*
EN 13773: *Curtains and drapes - Classification scheme*

Construction products:

EN ISO 1182: *No combustibility*
EN 13238: *Conditioning and general rules for the selection of substrates*
EN ISO 1716: *Heat of combustion*
EN 13823: *Exposure to the thermal attack by a SBI*
EN ISO 11925-2: *Flammability when subjected to direct impingement. Test on a single source of flame*
EN ISO 9239-1: *Floor coatings. Reaction to fire through a radiant heat source*
CEN/TS 1187: *Roofs: External fire exposure. Burning torch method.*
EN 13501-1+A1: *Fire class. of construction products and building elements using data from reaction to fire tests*