

CERTIFICATE OF COMPLIANCE FOR THE UNITED ARAB EMIRATES

This certificate of compliance validates the following

TEST REPORT NUMBER:	1) TE 94048 2) AR225409-4 3) TE 231795	CERTIFICATE NUMBER:	UAE-128
DATE OF ISSUE:	1) 30/04/2003 2) 08/12/2005 3) 21/05/2007	DATE OF ISSUE:	03/11/2014
DATE OF EXPIRY:	1) 03/11/2015 2) 08/12/2015 3) 21/05/2017	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:	ZP732-2P ZP732-2S30 EA32E-2	
		LOGO ON THE PRODUCT:	 	

DESCRIPTION OF THE PRODUCT:

Analogue addressable combined photoelectric smoke and heat detector, commercial reference “ZP732-2P”, “ZP732-2230” and “EA32E-2”

- Analogue sensing, reduces false and unwanted alarms
- Addressable, system knows the status and location of every detector
- Heat only facility
- 105 gr weight

TEST STANDARD:

EN 54-5, “Fire detection systems. Heat detectors – Point detectors”

EN 54-7, “Fire detection systems. Smoke detectors – Point detectors using scattered light”

TEST DESCRIPTION:

- 1) Construction and performance test of an addressable heat and smoke detector (TE 94048)
- 2) Construction and performance test of an addressable heat and smoke detector (AR 225409-4)
- 3) Performance test of an addressable combined photoelectric smoke and heat detector switched from a selection of suppliers as well as assessing the application of a conformal coating (TE 231795)

SPECIFICATION OF TEST SPECIMEN:

- 1) 20 Ziton combined photo/thermal sensors, commercial reference “ZP732-2” (TE 94048)
- 2) 15 Ziton combination optical Smoke-heat detectors, commercial reference “ZP732-2” (AR225409-4)
- 3) 10 Ziton combination optical Smoke-heat detectors, commercial reference “ZP732-2” (TE 231795)

TEST RESULT:

	Standard	Test report number	Test result
Position of heat sensitive elements	EN 54-5 and EN 54-7	TE 94048	PASSED
Individual alarm indication	EN 54-5 and EN 54-7	TE 94048	PASSED
Connection of ancillary devices	EN 54-5 and EN 54-7	TE 94048	PASSED
Monitoring of detachable detectors	EN 54-5 and EN 54-7	TE 94048	PASSED
On-site adjustment of response behaviour	EN 54-5 and EN 54-7	TE 94048	PASSED
Marking	EN 54-5 and EN 54-7	TE 94048	PASSED
Data	EN 54-5 and EN 54-7	TE 94048	PASSED
Additional requirements for software controlled detectors	EN 54-5 and EN 54-7	TE 94048	PASSED
Repeatability	EN 54-5 and EN 54-7	TE 94048	PASSED
Reproducibility	EN 54-5 and EN 54-7	TE 94048/ AR 225409-4/TE 231795	PASSED
Damp heat, steady state	EN 54-5 and EN 54-7	TE 231795	PASSED
Sulphur dioxide (SO2) corrosion (endurance)	EN 54-5 and EN 54-7	TE 231795	PASSED
Impact	EN 54-7	TE 94048	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):

Analogue addressable combined photoelectric smoke and heat detector used in fire detection equipment. Individual software monitoring of each element measures actual smoke levels, in addition to temperature rates of rise. Smoke sensing can be isolated for areas where ambient smoke may exist at certain times of the day, or used on a day night basis in premises where heat only is required whilst the building is occupied.

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*