

CERTIFICATE OF COMPLIANCE FOR THE UNITED ARAB EMIRATES

This certificate of compliance validates the following

TEST REPORT NUMBER:	TE 210318	CERTIFICATE NUMBER:	UAE-127
DATE OF ISSUE:	27/01/2005	DATE OF ISSUE:	03/11/2014
DATE OF EXPIRY:	03/11/2015	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:	ZP720-3P, EA20E-3	
		LOGO ON THE PRODUCT:	 	

DESCRIPTION OF THE PRODUCT:

Addressable thermal detector, commercial reference "ZP720-3P" and "EA20E-3"

- Analogue sensing, reduces false and unwanted alarms
- Addressable, the system knows the status and location of every sensor
- Automatic self-test
- 85 gr weight

TEST STANDARD:

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

TEST DESCRIPTION:

Construction and performance test of an addressable point heat detector (TE 210318)

SPECIFICATION OF TEST SPECIMEN:

15 Zlton addressable heat detectors, commercial reference "ZP720-3", number of specimens according to EN 54-5

TEST RESULT:

	Standard	Test report number	Test result
Classification	EN 54-5	TE 210318	A1-A2 - PASSED
Position of heat sensitive elements	EN 54-5	TE 210318	PASSED
Individual alarm indication	EN 54-5	TE 210318	PASSED
Connection to ancillary devices	EN 54-5	TE 210318	PASSED
Monitoring of detachable detectors	EN 54-5	TE 210318	PASSED
On-site adjustment of response behaviour	EN 54-5	TE 210318	PASSED
Marking	EN 54-5	TE 210318	PASSED
Data	EN 54-5	TE 210318	PASSED
Directional dependence	EN 54-5	TE 210318	PASSED
Static response temperature	EN 54-5	TE 210318	PASSED
Response time from typical application temperature	EN 54-5	TE 210318	PASSED
Response time from high ambient temperature (dry heat operational)	EN 54-5	TE 210318	PASSED
Variation in supply parameters	EN 54-5	TE 210318	PASSED
Reproducibility	EN 54-5	TE 210318	PASSED
Cold (operational)	EN 54-5	TE 210318	PASSED
Damp heat, cyclic (operational)	EN 54-5	TE 210318	PASSED
Damp heat, steady state (endurance)	EN 54-5	TE 210318	PASSED
Sulphur dioxide (SO2) corrosion (endurance)	EN 54-5	TE 210318	PASSED
Shock (operational)	EN 54-5	TE 210318	PASSED
Impact (operational)	EN 54-5	TE 210318	PASSED
Vibration, sinusoidal (operational)	EN 54-5	TE 210318	PASSED
Electromagnetic compatibility test	EN 54-5	TE 210318	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):

Addressable heat detector that responds to changes in its ambient temperature. The device provides a reliable response to fire in areas where environmental conditions may prohibit the use of smoke detectors.

SIGNED BY:


 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*