




Date: 2022-07-19

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	S7995-20210430	CERTIFICATE NUMBER	ULSZ. S7995
DATE OF ISSUE	2021-04-30	DATE OF ISSUE	2022-02-10
DATE OF EXPIRY	Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service.	DATE OF EXPIRY	Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service.
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	European Safety Systems Ltd	NAME OF THE BRAND	E2S
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Impress House Mansell Rd London W3 7QH GB	MODEL / NO	A100DC, A105NDC, A112NDC, A121DC, D105DC, AL100HDC, AL100XDC024, AL105NHDC, AL105NXDC024, AL112NHDC, AL112NXDC024, AL121HDC, AL121XDC024
WEBSITE	www.e2s.com	LOGO ON THE PRODUCT	
TEL	+44 (0)208 743 8880	EMAIL	sales@e2s.com



Product Details From Test Report		Reference Test Report page NO
<p>DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)</p>	<p>Audible signal appliances - This category covers electrically operated bells, buzzers, horns and similar signal-sounding appliances for fire protective signaling service. These appliances are marked with an audibility rating.</p> <p>Audible Signaling Appliance, Horn – Models A100DC, A105NDC, A112NDC, A121DC, D105DC.</p> <p>Audible Signaling Appliance, Horn/Strobes – Models AL100HDC, AL100XDC024, AL105NHDC, AL105NXDC024, AL112NHDC, AL112NXDC024, AL121HDC, AL121XDC024.</p>	57995-20210430
<p>TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)</p>	<p>UL 464 "Audible Signal Appliances"</p> <p>1.1 These requirements cover electrically and electronically operated bells, buzzers, horns, and similar audible signal appliances, rated 300 volts or less, for general or fire-protective signaling service and intended for indoor or outdoor locations or both in accordance with the National Electrical Code, NFPA 70, and the National Fire Alarm Code, NFPA 72.</p> <p>1.2 These requirements cover audible signal appliances for use in ordinary locations. Audible signal appliances for use in hazardous locations, as defined in the National Electrical Code, NFPA 70, are judged on the basis of their compliance with these requirements and further appropriate examination and tests to determine if they are acceptable for such use.</p> <p>1.3 These requirements do not cover door bells, buzzers, and chimes used in household and similar applications and intended for operation on Class 2 signal circuits as defined in the National Electrical Code, NFPA 70.</p> <p>1.4 A supplementary visual signal, incorporated as part of an audible signal appliance which is intended for fire alarm application, is covered by the applicable requirements in this standard, and in the Standard for Visual Signaling Appliances - Private Mode Emergency and General Utility Signaling, UL</p>	57995-20210430



	<p>1638, or in the Standard for Signaling Devices for the Hearing Impaired, UL 1971.</p> <p>1.5 A supplementary visual signal, incorporated as part of an audible signal appliance which is intended for general signaling (nonfire alarm service), is covered by the applicable requirements of this standard.</p>																																																							
<p>TEST DESCRIPTION</p>	<p>The following tests from the referenced standard(s), as applicable to the products submitted, were conducted:</p> <table border="1" data-bbox="491 757 1206 1951"> <thead> <tr> <th>UL 464, Sec.</th> <th>Test Name</th> </tr> </thead> <tbody> <tr><td>-</td><td>Normal Operations/Reference Audibility</td></tr> <tr><td>8.6.2</td><td>Strain Relief</td></tr> <tr><td>-</td><td>Temporal Pattern Verification</td></tr> <tr><td>13</td><td>Current Input Test</td></tr> <tr><td>14.1</td><td>Overvoltage (Current) Test</td></tr> <tr><td>14.2</td><td>Undervoltage (Current) Test</td></tr> <tr><td>15</td><td>Variable Ambient Temperature Test (Indoor)</td></tr> <tr><td>16</td><td>Polarity Reversal Test</td></tr> <tr><td>17</td><td>Temperature Test</td></tr> <tr><td>18</td><td>Electric Shock Current Test</td></tr> <tr><td>19</td><td>Endurance Test</td></tr> <tr><td>20.2</td><td>Transient Test - Supply-line transients (high-voltage appliances)</td></tr> <tr><td>20.3</td><td>Transient Test - Input/output circuit transients (low-voltage appliances)</td></tr> <tr><td>21.1</td><td>Jarring Test</td></tr> <tr><td>21.2</td><td>Vibration Test</td></tr> <tr><td>22</td><td>Dielectric Voltage Withstand</td></tr> <tr><td>23</td><td>Burnout Test</td></tr> <tr><td>24.1</td><td>Audibility Test - Determination of rating</td></tr> <tr><td>24.2</td><td>Audibility Test - Determination of sound reduction</td></tr> <tr><td>24.3</td><td>Audibility Test - Determination of low frequency signal format</td></tr> <tr><td>24.4</td><td>Audibility Test - Determination of signal format for fire alarm appliances</td></tr> <tr><td>24.5</td><td>Audibility Test - Determination of signal format for carbon monoxide notification appliances</td></tr> <tr><td>25.2</td><td>Polymeric Materials Test - Temperature Test</td></tr> <tr><td>25.3</td><td>Polymeric Materials Test - Flame Test</td></tr> <tr><td>25.4</td><td>Polymeric Materials Test - Impact Test</td></tr> <tr><td>26.2</td><td>Locked Rotor Test - Thermal or overcurrent</td></tr> </tbody> </table>	UL 464, Sec.	Test Name	-	Normal Operations/Reference Audibility	8.6.2	Strain Relief	-	Temporal Pattern Verification	13	Current Input Test	14.1	Overvoltage (Current) Test	14.2	Undervoltage (Current) Test	15	Variable Ambient Temperature Test (Indoor)	16	Polarity Reversal Test	17	Temperature Test	18	Electric Shock Current Test	19	Endurance Test	20.2	Transient Test - Supply-line transients (high-voltage appliances)	20.3	Transient Test - Input/output circuit transients (low-voltage appliances)	21.1	Jarring Test	21.2	Vibration Test	22	Dielectric Voltage Withstand	23	Burnout Test	24.1	Audibility Test - Determination of rating	24.2	Audibility Test - Determination of sound reduction	24.3	Audibility Test - Determination of low frequency signal format	24.4	Audibility Test - Determination of signal format for fire alarm appliances	24.5	Audibility Test - Determination of signal format for carbon monoxide notification appliances	25.2	Polymeric Materials Test - Temperature Test	25.3	Polymeric Materials Test - Flame Test	25.4	Polymeric Materials Test - Impact Test	26.2	Locked Rotor Test - Thermal or overcurrent	<p>57995-20210430</p>
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SPECIFICATION OF TEST SPECIMEN	The samples used for testing and evaluation were considered representative of the submitted products.	57995-20210430																		
TEST RESULT (SUCH AS PASSED CRITERIA / COMPLIED TO / DURATION /OBSERVATION /ETC)	Pass – Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service	57995-20210430																		
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 WITH / ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN /NOT TO BE INSTALLED AT / NOT TO BE INSTALLED WITH / ETC.	<p>This category covers electrically operated bells, buzzers, horns and similar signal-sounding appliances for fire protective signaling service. These appliances are marked with an audibility rating.</p> <p>Audible-signal appliances intended for fire alarm service, public mode, are rated a minimum 75 dB (A) at 10 ft. Audible-signal appliances intended for fire alarm service, private mode only, are rated a minimum 45 dB (A) at 10 ft.</p> <p>These appliances are not to be confused with audible signal appliances for general signaling (nonfire alarm) use, which are covered under Audible-signal Appliances, General Signal (UCST).</p>	57995-20210430																		



Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	UL LLC	NAME OF TEST FACILITY	UL LLC Facility
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	333 Pfingsten Road Northbrook, IL 60062 USA	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	333 Pfingsten Road Northbrook, IL 60062 USA
WEBSITE	www.ul.com	WEBSITE	www.ul.com
TEL	1-877-854-3577	TEL	1-877-854-3577
EMAIL	FireandSecurity@ul.com	EMAIL	FireandSecurity@ul.com
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	American National Standards Institute (ANSI) as a product certification body www.ansi.org	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	International Accreditation Services (IAS) www.iasonline.org
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	ISO/IEC 17065	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO/IEC 17025
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Active as of date of issuance of this certificate	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Active as of date of issuance of this certificate
REFERENCE NUMBER: <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Accreditation ID #0198	REFERENCE NUMBER: <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Accreditation ID# TL-157
CERTIFICATION MARK			

United Arab Emirates
Ministry of interior
Civil Defense G.H.Q
Fire intentional Lab & House
Of Expertise & Training Center
Approval Committee



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

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Alan King	SIGNATURE	
EMAIL / TEL	alan.king@e2s.com +44(0)20 8746 4326	FACTORY OFFICIAL SEAL	
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	Tim Fritz	SIGNATURE	
EMAIL / TEL	Timothy.C.Fritz@ul.com (847) 664-2520	CERTIFICATION BODY OFFICIAL SEAL	
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)



Date: 2022-07-19

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	S7995-20210430	CERTIFICATE NUMBER	UVAV. S7995
DATE OF ISSUE	2021-04-30	DATE OF ISSUE	2022-02-10
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FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Impress House Mansell Rd London W3 7QH GB	MODEL / NO	AL100HDC, AL100XDC024, AL105NHDC, AL105NXDC024, AL112NHDC, AL112NXDC024, AL121HDC, AL121XDC024
WEBSITE	www.e2s.com	LOGO ON THE PRODUCT	
TEL	+44 (0)208 743 8880	EMAIL	sales@e2s.com



Product Details From Test Report		Reference Test Report page NO
<p>DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)</p>	<p>Visual-signal Appliances for Fire-protective Signaling Systems - This category covers visual-signal appliances and accessories investigated for fire-protective signaling applications, and are intended for use with certified compatible fire alarm control units or control unit accessories.</p> <p>Horn/Strobes – Models AL100HDC, AL100XDC024, AL105NHDC, AL105NXDC024, AL112NHDC, AL112NXDC024, AL121HDC, AL121XDC024.</p>	S7995-20210430
<p>TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)</p>	<p>UL 1638 – “Standard for Safety for Visual Signaling Appliances - Private Mode Emergency and General Utility Signaling”</p> <p>1.1 These requirements cover electrically-operated visual signaling appliances, rated 300 volts or less, and intended for indoor locations, outdoor locations, or both, in accordance with the following Standards of the National Fire Protection Association:</p> <p>a) NFPA 70, National Electrical Code, and</p> <p>b) NFPA 72, National Fire Alarm Code.</p> <p>1.2 These requirements cover visual signaling appliances intended for:</p> <p>a) Private mode fire or other emergency signaling where the appliance signals only those persons directly concerned with the implementation of emergency action. Refer to the National Fire Alarm Code, NFPA 72.</p> <p>b) Informative type visual signaling appliances connected to or controlled by fire alarm or other emergency signaling system equipment, or both.</p> <p>c) General non-emergency use. Requirements for light output, flash rate, and duration characteristics of such visual signaling appliances are not applicable.</p>	S7995-20210430



	<p>1.3 When the appliance produces both a visual signal and an audible signal, the product shall also comply with the Standard for Audible Signal Appliances, UL 464; or the Standard for Speakers for Fire Protective Signaling Systems, UL 1480, as appropriate.</p> <p>1.4 These requirements cover visual signaling appliances for use in ordinary locations. Visual signaling appliances for use in hazardous locations, as defined in the National Electrical Code, NFPA 70, are evaluated on the basis of their compliance with these requirements and further appropriate examination and tests to determine their acceptability for such use.</p> <p>1.5 These requirements do not cover visual signaling appliances intended for the public operating mode as defined in the National Fire Alarm Code, NFPA 72. Public operating mode visual signaling appliances are covered under the Standard for Signaling Devices for the Hearing Impaired, UL 1971.</p> <p>1.6 These requirements do not cover lamp or strobe-light assemblies intended for entertainment or room lighting.</p> <p>1.7 These requirements do not cover annunciators that identify functions of a fire or emergency signaling system or relate information concerning portions thereof. Annunciators are covered under the Standard for Control Units for Fire-Protective Signaling Systems, UL 864.</p>															
<p>TEST DESCRIPTION</p>	<p>The following tests from the referenced standard(s), as applicable to the products submitted, were conducted:</p> <table border="1" data-bbox="486 1518 1034 1944"> <thead> <tr> <th>UL 1638, Test Name</th> <th>Section</th> </tr> </thead> <tbody> <tr> <td>Electrical Measurements</td> <td>12</td> </tr> <tr> <td>Light Output and Flash Rate/Duration Between Pulses Test</td> <td>13</td> </tr> <tr> <td>Variable Voltage Operation Test (General and Informative Type Appliances)</td> <td>14</td> </tr> <tr> <td>Temperature Test</td> <td>15</td> </tr> <tr> <td>Endurance Test</td> <td>16</td> </tr> <tr> <td>Component Failure Test</td> <td>17</td> </tr> </tbody> </table>	UL 1638, Test Name	Section	Electrical Measurements	12	Light Output and Flash Rate/Duration Between Pulses Test	13	Variable Voltage Operation Test (General and Informative Type Appliances)	14	Temperature Test	15	Endurance Test	16	Component Failure Test	17	<p>S7995-20210430</p>
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EXACT FIRE RATING/TO BE INSTALLED
IN ___/TO BE INSTALLED AT ___/TO BE
CONNECTED WITH ___/TO BE
INSTALLED WITH ___ ETC ALONG WITH
ANY WARNINGS SUCH AS NOT TO BE
USED IN ___/NOT TO BE INSTALLED
AT ___/ NOT TO BE INSTALLED
WITH ___ ETC.

Accessories, such as enclosures and back boxes, and the products with which they are compatible are identified in the individual certifications.

Where multiple parts are employed to form a complete unit, the specific parts are identified in the individual certifications. The marking on each part references installation instructions which show assembly and installation of the parts to form a certified product.

All products covered under this category are intended for indoor use only unless otherwise specifically marked.

Visual-signal appliances have been investigated for light output measured at a distance of 10 ft. on-axis. The units are marked with a range of light output and flash rate.

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

Laboratory and Certification body details

NAME OF CERTIFICATION BODY	UL LLC	NAME OF TEST FACILITY	UL LLC Facility
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	333 Pfingsten Road Northbrook, IL 60062 USA	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	333 Pfingsten Road Northbrook, IL 60062 USA
WEBSITE	www.ul.com	WEBSITE	www.ul.com
TEL	1-877-854-3577	TEL	1-877-854-3577
EMAIL	FireandSecurity@ul.com	EMAIL	FireandSecurity@ul.com
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	American National Standards Institute (ANSI) as a product certification body www.ansi.org	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	International Accreditation Services (IAS) www.iasonline.org
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	ISO/IEC 17065	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO/IEC 17025
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Active as of date of issuance of this certificate	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Active as of date of issuance of this certificate
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CERTIFICATION MARK			

United Arab Emirates
Ministry of interior
Civil Defense G.H.Q
Fire intentional Lab & House
Of Expertise & Training Center
Approval Committee



دولة الإمارات 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	Alan King	SIGNATURE	
EMAIL / TEL	alan.king@e2s.com +44(0)20 8746 4326	FACTORY OFFICIAL SEAL	
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	Tim Fritz	SIGNATURE	
EMAIL / TEL	Timothy.C.Fritz@ul.com (847) 664-2520	CERTIFICATION BODY OFFICIAL SEAL	<p>Building & Life Safety Technologies Northbrook, IL US For UAE Certificate of Compliance use only</p>
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)