






Date :February 7th, 2020

CERTIFICATE OF COMPLIANCE


This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	9-0014/20 9-0014/1/20 9-0014S/20	CERTIFICATE NUMBER	1293 – CPR – 0680
DATE OF ISSUE	January 30 th , 2020 January 30 th , 2020 January 30 th , 2020	DATE OF ISSUE	February 7 th , 2020
DATE OF EXPIRY	N/A	DATE OF EXPIRY	N/A
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Olympia Electronics N. Lakasas – P. Arvanitidis S.A.	NAME OF THE BRAND	Olympia Electronics
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	72nd klm old national road Thessaloniki - Katerini, 60300 Eginio, Greece	MODEL / NO	Waterproof sounder with beacon BS-532/WP
WEBSITE	http://www.olympia-electronics.gr	LOGO ON THE PRODUCT	 
TEL	+30 23530 51200	EMAIL	info@olympia-electronics.gr





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>The device is used as an indication of a fire panel that provides a warning audio signal from the siren and visual indication using the beacon. It is compatible with any conventional panel.</p> <table> <tr> <td>Main voltage</td> <td>18-30 V DC</td> </tr> <tr> <td>Alarm consumption</td> <td>12 to 49 mA</td> </tr> <tr> <td>Max. sound level in 1 meter</td> <td>103 dB</td> </tr> <tr> <td>Beacon</td> <td>1 power LED</td> </tr> <tr> <td>Enviromental type</td> <td>Type B</td> </tr> <tr> <td>Degree of cover protection</td> <td>IP65</td> </tr> <tr> <td>Operating temperature range</td> <td>-25 °C to +70 °C</td> </tr> <tr> <td>Relative humidity</td> <td>Up to 95 %</td> </tr> <tr> <td>Construction materials</td> <td>ABS/PC, PC</td> </tr> <tr> <td>External dimensions</td> <td>127 x 137 x 82 mm</td> </tr> <tr> <td>Typical weight</td> <td>306 g</td> </tr> </table>	Main voltage	18-30 V DC	Alarm consumption	12 to 49 mA	Max. sound level in 1 meter	103 dB	Beacon	1 power LED	Enviromental type	Type B	Degree of cover protection	IP65	Operating temperature range	-25 °C to +70 °C	Relative humidity	Up to 95 %	Construction materials	ABS/PC, PC	External dimensions	127 x 137 x 82 mm	Typical weight	306 g	<p>Manual BS-532/WP Page 1</p>
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<p>TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)</p>	<p>EN 54-3: 2001 EN 54-3: 2001/A1: 2002 EN 54-3: 2001/A2: 2006 EN 54-23:2010</p>	<p>Type Test Report No. C08/18/0076/ 4201,4206/ SL-9 Page 1</p>																						
<p>TEST DESCRIPTION</p> 	<p>Full testing according to whole standards EN 54-3: 2001, EN 54-3: 2001/A1: 2002, EN 54-3: 2001/A2: 2006 and EN 54-23:2010 including following tests: Performance under fire conditions Operational reliability Durability of operational reliability: temperature resistance Durability of operational reliability: humidity resistance Durability of operational reliability: shock and vibration resistance Durability of operational reliability: corrosion resistance Durability of operational reliability: electrical stability Durability of operational reliability: resistance to ingress Performed tests: Reproducibility</p> <p>Operational performance Operational reliability Performance parameters under fire conditions Durability</p>	<p>9-0014/20 (Other test in 9-0014/1/20)</p> <p>Page 4, 5 (Page 6, 7) Page 5, 6 (Page 7, 8) (Page 8, 9) Page 6</p>																						




	Dry heat (operational) Temperature 70°C, duration: 16 hours	Page 7 (Page 9, 10)
	Dry heat (endurance) Temperature 70°C, duration: 21 days	Page 8 (Page 10)
	Cold (operational) Temperature -25°C, duration: 16 hours	Page 9 (Page 10, 11)
	Dump heat cyclic (operational) 2 cycles:25°C to +55°C	Page 10 (Page 11, 12)
	Dump heat steady state (endurance) Temperature 40°C, relative humidity:93%, duration: 21 days	Page 11 (Page 12)
	Dump heat cyclic (endurance) 6 cycles:25°C to +55°C	Page 11, 12 (Page 12, 13)
	Sulphur dioxide (SO2) corrosion (endurance): SO2 contend: 25ppm, Temperature: 25°C, Relative humidity: 93%, Duration: 21days.	Page 12, 13 (Page 15, 16)
	Shock (operational) Shock pulse type: half sine, Pulse duration: 6ms, 939 m.s ⁻² , Pulse per direction:3, Number of dictions: 6	Page 13, 14 (Page 13)
	Impact (operational) Impact energy: 0,5J, Number of impact: 3	Page 14, 15 (Page 13, 14)
	Vibration, sinusoidal (operational): Frequency range: 10÷150Hz, acceleration amplitude: 0.5g, number of axes:3, Sweep rate: 1 octave min-1, number of sweep cycles per axis:2	Page 15 (Page 14, 15)
	Vibration, sinusoidal (endurance): Frequency range: 10÷150Hz, acceleration amplitude: 1g, number of axes:3, Sweep rate: 1 octave min-1, number of sweep cycles per axis:20	Page 16 (Page 15)
	Electromagnetic Compatibility (EMC), immunity tests (operational)	Page 17 (Page 16, 17)
	Electrostatic discharge Radiated electromagnetic fields Conducted disturbances induced by electromagnetic fields Fast transient burst Slow high energy voltage surges Enclosure protection	Page 18, 19 (Page 7, 8)

List of test equipment used:

- humidity chamber CTS, model C-70/600, No. 077229
- vibration system DERRITRON VP400+vibromer DERRITRON SSC No. 9487
- shock tester TIRASCHOCK 4110, No. 21286
- SO2 chamber WEISS TECHNIK No. 21397
- equipment to the impact test - spring hammer No. 20247
- sound analyzer No. 21419



<p>SPECIFICATION OF TEST SPECIMEN</p>	<p>There were tested 21 pieces of BS-532/WP</p>	<p>Type Test Review No. C08/18/0076/4201,4206/SL-9 Page 1</p>																													
<p>TEST RESULT (SUCH AS PASSED CRITERIA ___/ COMPLIED TO ___/ DURATION ___/OBSERVATION ___/ETC)</p> 	<table border="1"> <thead> <tr> <th rowspan="2">Essential characteristics</th> <th colspan="2">Harmonised technical specification</th> </tr> <tr> <th>EN 54-3:2001 EN 54-3:2001/A1:2002 EN 54-3:2001/A2:2006</th> <th>EN 54-23:2010</th> </tr> </thead> <tbody> <tr> <td>Performance under fire conditions</td> <td>cl. 4.2, 4.3, 5.2, 5.3, C.3.1=N/A, C.3.2=N/A, C.5.1=N/A, C.5.2=N/A, C.5.3=N/A</td> <td>cl. 4.3.1 to 4.3.6, 4.3.7=N/A</td> </tr> <tr> <td>Operational reliability</td> <td>cl. 4.4, 4.5, 4.6, 5.4, C4=N/A</td> <td>cl. 4.2.1 to 4.2.8</td> </tr> <tr> <td>Durability of operational reliability: temperature resistance</td> <td>cl. 5.5, 5.6, 5.7, 5.8, 5.9</td> <td>cl. 4.4.1.1 to 4.4.1.3</td> </tr> <tr> <td>Durability of operational reliability: humidity resistance</td> <td>cl. 5.8, 5.9, 5.10</td> <td>cl. 4.4.2.1 to 4.4.2.3</td> </tr> <tr> <td>Durability of operational reliability: shock and vibration resistance</td> <td>cl. 5.12 to 5.15</td> <td>cl. 4.4.3.1 to 4.4.3.4</td> </tr> <tr> <td>Durability of operational reliability: corrosion resistance</td> <td>cl. 5.11</td> <td>cl. 4.4.4</td> </tr> <tr> <td>Durability of operational reliability: electrical stability</td> <td>cl. 5.16</td> <td>cl. 4.4.5</td> </tr> <tr> <td>Durability of operational reliability: resistance to ingress</td> <td>cl. 5.17</td> <td>---</td> </tr> </tbody> </table>	Essential characteristics	Harmonised technical specification		EN 54-3:2001 EN 54-3:2001/A1:2002 EN 54-3:2001/A2:2006	EN 54-23:2010	Performance under fire conditions	cl. 4.2, 4.3, 5.2, 5.3, C.3.1=N/A, C.3.2=N/A, C.5.1=N/A, C.5.2=N/A, C.5.3=N/A	cl. 4.3.1 to 4.3.6, 4.3.7=N/A	Operational reliability	cl. 4.4, 4.5, 4.6, 5.4, C4=N/A	cl. 4.2.1 to 4.2.8	Durability of operational reliability: temperature resistance	cl. 5.5, 5.6, 5.7, 5.8, 5.9	cl. 4.4.1.1 to 4.4.1.3	Durability of operational reliability: humidity resistance	cl. 5.8, 5.9, 5.10	cl. 4.4.2.1 to 4.4.2.3	Durability of operational reliability: shock and vibration resistance	cl. 5.12 to 5.15	cl. 4.4.3.1 to 4.4.3.4	Durability of operational reliability: corrosion resistance	cl. 5.11	cl. 4.4.4	Durability of operational reliability: electrical stability	cl. 5.16	cl. 4.4.5	Durability of operational reliability: resistance to ingress	cl. 5.17	---	<p>Type Test Review No. C08/18/0076/4201,4206/SL-9 Page 2</p>
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<p>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>	<p>BS-532/WP is compatible with any conventional panel Mounting Wall mounted (W) Mountin height 2.4 m max. The base of the siren has to be installed in the correct orintation! Cover area 27.7 m³ max. Enviromental type Type B (outdoor use) Operation temperature: -25°C ÷ +70°C Relative humidity: Up to 95% Degree of protection: IP65</p> <p>Any particular conditions applicable to the use of the product and technical specifications, possible hardware configurations, environment, electrical characteristics are shown in the Manual BS-532/WP.</p>	<p>Manual BS-532/WP Page 1-6</p>
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Laboratory and Certification body details

NAME OF CERTIFICATION BODY	EVPU a.s.	NAME OF TEST FACILITY	EVPU a.s.
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Trecianska 19, 01851 Nova Dubnica, Slovak Republic	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Trecianska 19, 01851 Nova Dubnica, Slovak Republic
WEBSITE	www.evpu.sk/skctc	WEBSITE	www.evpu.sk/skctc
TEL	+421-42-4403 515	TEL	+421-42-4403 400
EMAIL	vrankova@evpu.sk	EMAIL	novotny@evpu.sk
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	SNAS (Slovak National Accreditation Service) http://www.snas.sk/index.php?l=en	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	SNAS (Slovak National Accreditation Service) http://www.snas.sk/index.php?l=en
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	ISO/IEC 17065:2012	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO/IEC 17025:2017
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	07.09.2020	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	08.09.2024
REFERENCE NUMBER: <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	101 / P-012	REFERENCE NUMBER: <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	101 / S-042
CERTIFICATION MARK			





(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Dimitrios Lakasas	SIGNATURE	
EMAIL / TEL	ceo@olympia-electronics.gr	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	Helena Vranková	SIGNATURE	
EMAIL / TEL	+421-42-4403 515 vrankova@evpu.sk	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)