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TEST CERTIFICATE

CLIENT: DNH Worldwide Limited 31 Clark Road Mount Farm Bletchley Milton Keynes MK1 1LG CERTIFICATE NUMBER

22412/04 Issue 01

CUSTOMER ORDER NUMBER Keith Gold

PAGE 1 of 2

DATE OF RECEIPT

18 October 2021

TEST ITEM(S)

D	escription	Model Number	Serial Number	Date Received	Test Conducted
Lo	oudspeaker	DSP-15LT(A)	Not Serialised	18/10/21	IP6X, IPX6
Lo	oudspeaker	DSP-15LT (B)	Not Serialised	11/11/21	IPX7
TEST SPECIFICATION / ISSUE		BS EN 60529:1992 +A2:2013 IP6X Category 1 BS EN 60529:1992 +A2:2013 IPX6 BS EN 60529:1992 +A2:2013 IPX7			
DATE OF TEST		IP6X: 20 October 2021 IPX6: 21 October 2021 IPX7: 12 November 2021			
TEST(S) APPLIED		<u>IP6X - Protection Against Solid Foreign Objects, Dust-Tight</u> Initially the test item was examined for apertures and openings all penetration of a 1mm diameter probe applied with a force of 1N.			
		Prior to testing a 19.9 mbar vacuum was applied to the unit, the air flow recorded at 60 cm ³ /min, therefore a test period of 8 hours was required test conditions were as follows:			
		Dust Grade:		BS EN 60529 Talc Test Dust	
		Concent	tration:	2 kg/m ³	
		Duration	1:	8 hrs	
		Tempera	ature/Humidity:	19.3°C / 61% rh	
		The EU allowed the wate	<u>IPX6 - Protection Against Powerful Water Jets</u> The EUT was placed into the centre of the water test area, it was t allowed to temperature stabilise until the temperature differential betw the water and the unit was less than 5°C. The test item was then subject to water from all practicable directions. The test conditions were as follow		
		Flow rat	e: 100 l/m	in	
		Nozzle:	Nozzle: IPX6 compliant (12.		1
		Duration	n: 3 minut	es	
		Temperature/Humidity: 17.0°C / 48% rh			



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TEST CERTIFICATE DNH Worldwide Limited CLIENT: **CERTIFICATE NUMBER** 22412/04 Issue 01 31 Clark Road Mount Farm CUSTOMER ORDER NUMBER Keith Gold Bletchley Milton Keynes PAGE 2 of 2 MK1 1LG IPX7 - Temporary Immersion in Water The test item was secured to a fixture then lowered in the submersion tank, it was immersed into the water to a depth of 1 metre below the surface for a period of 30 minutes. The temperature difference between the water and the test items was less than 5°C. The test conditions were as follows: Test Duration: 30 minutes Distance from bottom of enclosure to water surface: 1000 mm ±10mm 14.1 °C Water temperature: 15.6 °C Test item temperature: 16.5 °C Ambient temperature 60 %rh Ambient Humidity **RESULT(S) OF TEST** IP6X There were no apertures permitting entry with a 1mm diameter probe when using a force of 1N on either unit under test. On completion of the test excess dust was removed by light brushing, no conspicuous damage was noticed on the exterior of the unit, an internal inspection showed no visible dust ingress. IPX6 On completion of the test excess water was removed, no conspicuous damage was noticed on the exterior of the unit, an internal inspection showed no visible water ingress. IPX7 On completion of the test excess water was removed, no conspicuous damage was noticed on the exterior of the unit, an internal inspection showed no visible water ingress. COMPLIANCE DSP-15LT(A) conformed to the requirements of BS EN 60529:1992 A2:2013 IP6X Category 1. DSP-15LT(A) conformed to the requirements of BS EN 60529:1992 A2:2013 IPX6. DSP-15LT(B) conformed to the requirements of BS EN 60529:1992 A2:2013 IPX7.

Approved by Greg Spicer, MEng Managing Director Date: 26 January 2022