

TEST CERTIFICATE

CLIENT: Pamby Electronics Ltd
Units 7 & 8
Ventura Centre
Ventura Place
Upton Industrial Estate
Poole, Dorset
BH16 5SW

CERTIFICATE NUMBER 21961/04 Issue 01

CUSTOMER ORDER NUMBER A16163

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DATE OF RECEIPT

06 August 2021

TEST ITEM(S)

Description	Ref Number	Item Number	PTL ID	Test Applied
MFM series microphone	PED 1037	1	34976	IP6X
MFM series microphone	PED 1037	2	34977	
MFM series microphone	PED 1037	4	34979	IPX7

TEST SPECIFICATION / ISSUE

BS EN 60529:1992 +A2:2013 IP67

DATE OF TEST

10-11 August 2021

TEST(S) APPLIED

Protection Against Solid Foreign Objects, Dust-Tight

Initially the test items were examined for apertures and openings allowing 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 was below measurable, therefore a test period of 8 hours was required. The test conditions were as follows:

Equipment Category: 1
Dust Grade: BS EN 60529 Talc Test Dust
Concentration: 2 kg/m³
Duration: 8 hrs
Temperature/Humidity: 20.0°C / 43% rh

Protection Against the Effect of Temporary Immersion in Water

The test item was placed on a fixture and immersed in was water, the test conditions were as follows:

Test Duration: 30 minutes
Distance from bottom of enclosure to water surface: 1000 mm ±10mm
Water temperature: 15.2 °C
Test item temperature: 17.4 °C
Ambient temperature 17.9 °C
Ambient Humidity 48%rh



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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 either unit, an internal inspection showed no visible dust ingress.

IPX7

Excess water was removed to allow inspection; an internal inspection revealed no visible water ingress into the test item.

COMPLIANCE

The MFM series microphone conformed to the requirements of BS EN 60529:1992 +A2:2013 IP67.

Approved by
 Greg Spicer, MEng
 Managing Director
 Date: 21 October 2021