

Fraunhofer

TESTED® DEVICE

Damitech Co., Ltd. Damitech Pod DA0200

Report No. DA 1901-1094

Statement of Qualification

Single product **Particle Emission**





Statement of Qualification • Single product

Customer Damitech Co., Ltd.

> 504 Stx W-Tower Guro-Dong 90, Gyeongin-ro 53-gil 08215 Guro-Gu, Seoul

Korea

Component tested

Category: **Energy Supply**

Subcategory Cable Systems

Product name: Damitech Pod DA0200

(manufacturing date: 12/31/2018; color: white; serial number: DA18-1201;

batch number: DA18-1231)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

The norms stated generally refer to the version valid at the time of the tests.

Optical particle counter:

LasAir II 110 and LasAir III 110 with measuring ranges \geq 0.1 μ m, \geq 0.2 μ m, \geq 0.3 µm, \geq 0.5 µm, \geq 1.0 µm and \geq 5.0 µm

•	Cleanroom Air	Cleanliness	Class	(according	to ISO	14644-1	l): ISC) 1	l
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• Airflow velocity:0	.45	m/	/ 9
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• Stroke length: s = 820 mm

• Parameter Set 1:.....v₁ = 0.5 m/s; a₁ = 1.0 m/s²

• Parameter Set 3: $v_2 = 2.0 \,\text{m/s}$; $a_2 = 4.0 \,\text{m/s}^2$

Test result/Classification

When operated under the specified test conditions, the Damitech Pod DA0200 is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	1
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	1
Overall result	1



The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Report No. first document

on behalf of River

Stuttgart, February 18, 2019

Place, date of first document issued

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under

www.tested-device.com.

