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TESTED® DEVICE

FANUC Europe Corporation LR-Mate 200iD/7C

Report No. FA 1404-700

Statement of Qualification

Particle Emission





Statement of Qualification

Customer: FANUC Europe Corporation

Zone Industrielle 6468 Echtemach Luxembourg

Component tested

Category: Automation Components

Subcategory: Automation Components / Robotics

Product name: LR-Mate 200iD/7C (manufacturing date: 12/2013; color: white;

serial number: A05B-1142-B221)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

VDI 2083-9.1; ISO 14644-1

The norms stated refer to the relevant editions applicable at the time of the

tests

Test devices: Optical particle counter:

LasAir II 110 with measuring ranges $\geq 0.1 \, \mu m$, $\geq 0.2 \, \mu m$, $\geq 0.3 \, \mu m$,

 $\geq 0.5 \,\mu\text{m}, \geq 1.0 \,\mu\text{m} \text{ und} \geq 5.0 \,\mu\text{m}$

Test environment parameters:

Test procedure parameters:

Operation of each axis: separatelySpeed: 40 % and 80 %

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Test result/Classification:

(in acc. with ISO 14644-1)

The robot LR-Mate 200iD/7C is suitable for use in cleanrooms fulfilling the specifications of the following air cleanliness classes:

Parameter	Air Cleanliness Class
40 % of maximum speed	5
80 % of maximum speed	5
Overall result	5



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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

Nobelstraße 12 70569 Stuttgart Germany Stuttgart, May 2, 2014

Place, date of first document issued

Place, current da

in Rolling

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com