



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

FANUC Europe GmbH  
LR Mate 200iD/7L  
Report No. FA 1906-1033

Single product  
Electrical  
Resistance

### Qualification Certificate

This is to certify that the product mentioned above, provided by

**FANUC Europe GmbH**  
Neuhausen auf den Fildern, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number FA 1906-1033.

The robot LR Mate 200iD/7L in gelber Lackierung/7 kg Langarm (A05B-1142-B301) was examined for its electrical resistance at representative points in accordance with DIN EN 61340-2-3. The resistance to groundable point ( $R_{gp}$ ) and resistance point-to-point ( $R_{p-p}$ ) values obtained from the test piece lies above the limits of the limiting value of  $1 \times 10^9 \Omega$  required by DIN EN 61340-5-1 for ESD control elements (expect measuring point 1 ( $R_{gp}$ ) which lies below the limiting value).

Resistance to groundable point ( $R_{gp}$ ) and resistance point-to-point ( $R_{p-p}$ )	Operating voltage [V]	Compliance with limit value as per DIN EN 61340-5-1
Overall result	10 / 100	not fulfilled*

\*In situations where it is important to consider whether the Charged Device Model (CDM) could cause damage, the lower limit value for ESD protective components should be above  $1 \times 10^4 \Omega$ .

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Report No. first document

Stuttgart, June 7, 2019  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of   
Dr.-Ing. Udo Gommel, Project Manager Fraunhofer IPA

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](http://www.tested-device.com).

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