

Certificate



Functional
Safety

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No.: 968/FSP 1642.01/23

Product tested	Diagnostic Software	Certificate holder	Renesas Electronics Corporation 3-2-24 Toyosu Koto-ku Tokyo 135-0061 Japan
Type designation	Renesas Diagnostic Software for RX100 MCU series as listed in the current revision list.		
Codes and standards	IEC 61508-1:2010 IEC 61508-2:2010	IEC 61508-3:2010	
Intended application	The Renesas Diagnostic Software for RX100 MCU series complies with the requirements of SC 3 acc. to IEC 61508. The claimed diagnostic coverages of 90% (medium) for CPU and RAM tests and 99% (high) for ROM test can be confirmed. As a result of this the Diagnostic Software can be used in safety related applications up to SIL 3.		
Specific requirements	The instructions of the Safety Manual and the User Guide of the respective MCU series shall be considered.		

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT FSP1 V3.0:2020 in its actual version, whose results are documented in Report No. 968/FSP 1642.01/23 dated 2023-11-14. This certificate is valid only for products, which are identical with the product tested. Issued by the certification body accredited by DAkkS according to DIN EN ISO/IEC 17065. The accreditation is only valid for the scope listed in the annex to the accreditation certificate D-ZE-11052-02-01.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Köln, 2023-11-27

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. Thomas Steffens

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