

**CERTIFICATE NO**

ZERTIFIKAT NR.:

**FS/71/220/22/0882**

**PAGE 1/1**

SEITE(N)

**LICENCE HOLDER**

GENEHMIGUNGSINHABER

industrie automation  
Energiesysteme GmbH  
Am Untergrün 6  
D- 79232 March

**MANUFACTURING PLANT**

FERTIGUNGSSTÄTTE

industrie automation  
Energiesysteme GmbH  
Am Untergrün 6  
D- 79232 March

**PROJECT NO/-ID**

PROJEKT-NR/-ID

R2S4

**LICENSED TEST MARK**

GENEHMIGTES PRÜFZEICHEN



**Technical REPORT NO.**

TECHNISCHER BERICHT NR.

R2S40001

**Tested according to**

Geprüft nach

ISO 13849-1:2016  
ISO 13849-2:2012

**Certified product(s)**

Zertifizierte(s) Produkt(e)

Battery Management System

**Model(s)**

Modell(e)

liflex NG

**Technical Data and Parameter**

Technische Daten und Parameter

The product fulfils the requirements of functional safety acc. to ISO 13849 in accordance up to PLc. designed with a hardware architecture according Category 1 and 2.

**Specific Requirements**

Spezifische Anforderungen

This certificate confirms the achievement of the requirements of functional safety based on the following proofs:

- Proof of systematic safety integrity for defined phases of the life cycle
- Proof of the required safety-related HW-parameters MTTFD, DCavg, CCF, PFHD and Cat. by means of FMEDA
- of the safety-related techniques and measures for software (SRESW, SRASW)
- Proofs that processes and methods are established at the manufacturer guaranteeing that unexceptionable processes in terms of design, measures against systematic failures, validation, management and quality management comply with the safety-related standard (see R2S40001)

**Certification Body  
for Functional Safety  
SGS-TÜV Saar GmbH**

Zertifizierungsstelle für Funktionale Sicherheit

Munich, 2022-05-19

Robert Sammer

The test mark regulation is an integral part of this certificate.  
Die Prüf- und Zertifizierungsordnung ist integraler Bestandteil des Zertifikates.

SGS-TÜV Saar GmbH, Hofmannstrasse 50, 81379 München

Website [www.sgs-tuv-saar.com](http://www.sgs-tuv-saar.com) E-mail [fs@sgs.com](mailto:fs@sgs.com)

