

Certificate



Product Safety
Functional
Safety
Cyber Security

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ID 060000000

No.: 968/FSP 1454.01/17

Product tested

Safety-Related Programmable Electronic System (2oo3 with diagnostics (2oo3D) and 3-2-1-0 mode of operation)

Certificate holder

Beijing Consen Technologies Co., Ltd.
No.7 Anxiang Street, Area B
Tianzhu Airport Economic Development Zone, Shunyi District
Beijing, 101318
P.R. China

Type designation

TSxPlus System, Details the actual "Revision List"

Codes and standards

IEC 61508 Parts 1-7:2010	EN 61010-2-201:2013
EN 62061:2005 + AC:2010 + A1:2013 + A2:2015	IEC 62443-4-1:2016 (65/628/CDV)
IEC 61131-6:2012	IEC 62443-4-2:2015 (65/603/DC)
IEC 61131-2:2007	ISASecure Embedded Device Security Assurance 2.0.0:2016
IEC 61326-3-1:2008	ISASecure EDSA 102:2016 Version 2.7
EN 61010-1:2010	

Intended application

The product complies with the requirements of the relevant standards (SC 3 and SIL 3 acc. to IEC 61508) and can be used in safety-related applications for Process Control, Burner Management System (BMS), Fire & Gas System (FGS), Emergency Shutdown System (ESD), Process Shutdown System (PSD), Emergency Trip System (ETS), Integrated Turbine / Compressor Control System (ITCC), High Integrity Pressure Protection System (HIPPS), where the safe state is the de-energized state, up to SIL 3.
The product complies with the requirements of the security relevant standards (Security Level 1 (SL 1) acc. to IEC 62443-4-1, -4-2 and ISASecure EDSA 2.0.0 - Level 1 acc. to ISASecure EDSA 2.0.0 - incorporating EDSA-102, Errata v2.7).
Applications, where the demand state is the de-energized or energized state, up to SIL 3.
The product was also reviewed in reference to the applicable requirements of IEC 61511-1:2016 + Corr.1:2016, EN 50156-1:2015, EN 54-2:1997 + AC:1999 + A1:2006, EN 298:2012, EN 12067-2:2004, NFPA 72:2016, NFPA 85:2015, NFPA 86:2015, ANSI/ISA -84.00.01-1:2004.

Specific requirements

The instructions of Safety Manuals including security guidelines and User Manuals according to the revision list must be considered.
Only the OSP01 is in addition approved according to EN 62061:2005 + A1:2013 + A2:2015.

Valid until 2022-07-07

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 1454.01/17 dated 2017-07-07.

This certificate is valid only for products which are identical with the product tested. It becomes invalid at any change of the codes and standards forming the basis of testing for the intended application.

TÜV Rheinland Industrie Service GmbH
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Funktionale Sicherheit
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Köln, 2017-07-07

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. Heinz Gall

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