



FUNCTIONAL SAFETY IN **INDUSTRIAL** **AUTOMATION** EN 61508 and EN 61511

The required safety of industrial operations (chemical plants, refineries, ...) is increasingly ensured through comprehensive safety instrumented systems (SIS). The requirements for these electrical, electronic and programmable electronic safety systems are defined in EN 61508. The requirements for management, designers, integrators and users in the implementation and use of these safety systems in industry are defined in EN 61511.

ProCS, Ltd. has been a holder of the Declaration of Systematic Capability proving the compliance of the built FSM (Functional Safety Management) system with the standards EN 61508-1 and EN 61511-1 (Systematic Capability level SC3) since 2020

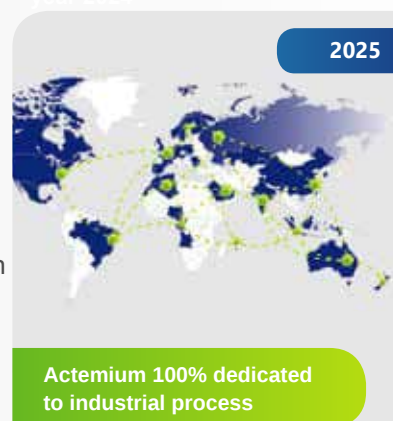
- + Maximised transparency of your safety instrumented systems
- + Reduced risk and improved regulatory compliance
- + Improved availability and reliability

Our **Functional Safety Engineers** certified by **TÜV Rheinland** use industry standard software **exSILentia™** from **Exida** for quantitative and qualitative SIL verification.



OUR SERVICES INCLUDE

- + identification of process hazards and safeguards (HAZOP, LOPA) – use of our expertise in the identification of scenarios of hazardous events, identification of existing and definition of new protective layers to eliminate risk
- + preparation of a plan to ensure functional safety management according to EN 61511
- + specification of safety requirements (SRS) – definition of safety technological, technical and legislative requirements for individual SIF in SIS
- + development of a solution to ensure the cybersecurity of SIS and components according to IEC 62443
- + engineering and design of SIS according to relevant standards and regulations (EN/IEC, ATEX, EMC, ...)
- + verification of the achieved safety integrity level (SIL) together with the processing of the required documentation (quantitative and qualitative verification proving that the SIF meets the required SIL and SC level)
- + detailed engineering and design of the SIS together with the development of the required documentation for the hardware and software part
- + development of a cyber security project definition of the communication interface between the basic control system (BPCS) and other automated systems
- + implementation SIFs into the safety system (ESDS, safety PLC, BMS, BPS, ...)
- + production of electrical switchboards, complete installation of electrical and I&C
- + creation of test procedures for FAT, SIT, SAT
- + validation of the installed SIS - confirmation of compliance with the requirements defined in the SRS
- + consultations, supervision, evaluation of the existing installed SIS (ESDS, safety PLC, BMS, BPS, field instrumentation, ...) and classification of the achieved SIL level according to EN 61511
- + maintaining the SIS at the required SIL level according to the Proof Test Procedure



400 Business Units

41 Countries

25 000 Employees

4 € Billion revenue

Since 2015, ProCS, s.r.o. has been presenting itself under the Actemium brand, within the **international VINCI Energies group**. Actemium is an international network focused on industrial processes. Actemium designs, implements and maintains production their customers' facilities in order to improve their performance and competitiveness.

CONTACT

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