With Saia PCD® QronoX, Saia Burgess Controls (SBC) is launching a new generation of cyber-secure PLC technology

- Software and hardware protected in accordance with the latest standards
- Object-oriented high-level language programming in accordance with IEC 61131-3
- Compatible with Saia PCD3 I/O modules

Murten, 9. June 2020 – Saia PCD® QronoX is a new PLC system. Together with the IEC controller, it provides a new, future-proof generation of Saia PCD® controllers and is based on the software ECS (Engineering and Commissioning Suite). It is the first PLC technology system whose hardware and software meet all cyber security requirements according to ANSI ISA 62443, Security Level 3. The high-performance IEC controller also offers object-oriented high-level language programming in accordance with the IEC 61131-3 international standard and is compatible with PCD3 I/O modules. The Saia PCD® QronoX system is particularly suitable for critical applications and infrastructures in the areas of water supply, tunnel infrastructure, district heating, district cooling, energy production and energy distribution.

Comprehensive cyber security

The controller runs on a QNX operating system and offers reliable cyber security based on ANSI ISA 62443 – the standard for industrial automation – for monitoring real-time applications. On this basis, the system is an excellent choice for automating critical infrastructures. Together with role-based user management, suitable modern software and hardware procedures for encrypting and signing programs and user data ensure that only authorized users have access. The encrypted file system also supports micro SD cards up to 32 GB in size and thus offers sufficient storage space for user data such as trend logs, alarm and event histories and all other information that is generated during operation. The IEC controller complies with Security Level 3 according to the ANSI ISA 62443-3-3 industrial security standard. An upgrade to Level 4 is planned over the course of the project.

Compatibility and flexibility for the future

One controller alone can process more than 1,000 I/O data points and allows up to 14 communication interfaces to be integrated into the system. Object-oriented high-level language programming allows high-performance, efficient engineering. The system thus complies with the industrial standard for application development and supports all of the languages defined therein. This makes it easy to use third-party and OpenSource solutions. Application programmers can combine various protocols via IP and serial interfaces as required. These include OPC-UA, MQTT, IT protocols, Modbus and Profinet as well as CAN for OEM solutions. User-defined special protocols are also possible in the application program. Comprehensive compatibility with the proven and established PCD3 I/O system ensures stable, reliable

operation. Existing installations can easily be upgraded to ensure compatibility with the new IEC controller functions, resulting in lower investment and installation costs.

Wide range of functions and improved warehouse optimization

The Saia PCD® QronoX system is available immediately and comprises the IEC controller PCD3.M6893 and the Engineering and Commissioning Suite (ECS) for application development. The hardware already includes a large number of interfaces and protocols and can be flexibly expanded thanks to further software options. Along with IEC programmability, the basic libraries and the integrated HTTPS Web Server, Modbus, OPC-UA, Profinet and Open Data Mode Communication are pre-installed on delivery. Thanks to the flexible expansion options, the product can be used in a variety of scenarios and thus helps with warehouse optimization.

The software for application development is provided as part of a service and support maintenance contract (PCD8.QronoX-SSA) with SBC. Registered customers are given access to an information and download portal where all important information and updates are available at any time. SBC's technical support also assists registered customers when they carry out projects.

To mark the launch of the product, SBC has a special offer for early birds: anyone who decides to take part in a pilot project by the end of June 2020 and is selected will receive this service and maintenance contract free of charge until 30st April 2021, regardless of how many controllers they purchase. If you are interested in taking part in the selection process, please contact your SBC contact person.

About Saia-Burgess Controls AG:
Saia-Burgess Controls AG (www.saia-pcd.com) is a wholly-owned subsidiary of Honeywell International. It has developed, produced and marketed electronic components as well as measurement and control systems since 1950. The products have an extremely long service life with a life cycle of up to 25 years and are mainly used in heating, ventilation, air conditioning, energy management and water systems. A further important pillar is OEM production. SBC produces around 2 million I/O points, 40,000 CPUs and over 700,000 small devices each year to the most exacting quality standards. With annual turnover of 93 million dollars and over 300 employees, this Swiss company headquartered in Murten is a valued manufacturer of infrastructure automation solutions.

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