

Mitsubishi Electric launches new safety PLC

Product novelty offers redundancy according to IEC 61508 SIL 2 standard

Mitsubishi Electric's modular PLC series MELSEC iQ-R is now available as a fully redundant pair of controllers for high performance and extra reliability. To help reduce the total cost of ownership (TCO), the system also integrates various features into the PLC for monitoring and managing safety.

In recent years, compliance with international safety standards has become an essential requirement across global markets. In addition, quick recovery from control-system breakdowns has emerged as a common necessity. Many key production applications require full redundancy conforming to the IEC 61508 SIL 2 standard, so critical systems can still operate in case of a failure or accidental damage to the primary CPU unit.

The MELSEC iQ-R redundant pair of PLCs comply with the functionality requirement of this standard, which is certified by TÜV Rheinland® to meet global needs. The guidelines within the redundancy standard necessitate a full duplicate PLC rack with all modules, which the primary set will switch-over to instantaneously.

The programming platform, GX Works3 engineering software integrates both process and safety-control programming in one environment. This enables the execution of integrated process-and safety-control programs with a single CPU module, eliminating the time and cost associated with purchasing and installing a separate safety controller.

Process integrity and dependability are the main reasons for plant operators to install redundant automation controllers into their systems, which is why another

layer of protection has been added to the basic redundancy architecture of the iQ-R. The safety version includes a SIL2-process CPU module and a separate SIL2-function module as a set, sitting alongside the power supply module, basic base unit and network module. This ensures continuous operation by switching to standby operation if an error occurs in the control system.

Note:

See how Mitsubishi Electric is able to respond to today's automation demands:

eu3a.mitsubishielectric.com/fa/en/solutions

Image caption:



The MELSEC iQ-R Series SIL 2 redundant programmable controller offers customers protection for critical control systems with a high-performance PLC, seamless switch-over protection and integrated safety control for a reduced total cost of ownership.

[Source: Mitsubishi Electric Corporation, Japan.]

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About Mitsubishi Electric

With over 95 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation is a recognised world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, transportation and building equipment.

With around 142,340 employees the company recorded consolidated group sales of Yen 4,431.1 billion (\$ 41,8 billion*) in the fiscal year that ended on March 31, 2018.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Factory Automation – European Business Group

Mitsubishi Electric Europe B.V., Factory Automation - European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 106 Yen = 1 US Dollars, last updated 31.03.2018 (Source: Tokyo Foreign Exchange*

Market)

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