

SPS IPC Drives 2013 (Hall 7, Stand 380)

Mitsubishi Electric presents new modular control concept MELSEC iQ-R

Nuremberg/Ratingen, 26 November 2013

Mitsubishi Electric will be presenting its new control concept, MELSEC iQ-R, for the first time in Europe at SPS IPC Drives 2013 in Nuremberg. Compared with its predecessor, the successful MELSEC System Q series, the new modular high-performance controller will significantly reduce development costs as well as maintenance and operating costs. At the same time, considerably improved performance and comprehensive functionalities will also guarantee increased safety, reliable production processes and reduced downtimes.

With the MELSEC iQ-R control concept, intellectual property is guaranteed to be fully protected by the wide range of safety functions which include an additional security hardware key, an IP-based access filter and user authentication. Improved debugging and error recovery functions will enable commissioning and maintenance work and associated costs to be reduced further. The functions provided include the creation of an operating history as well as error and event logging, simple diagnostics, high-speed recording of analogue data and an integrated database for the safe storage of recipes. The MELSEC iQ-R series can be programmed with the completely new GX Works3 programming software which will be part of the iQ Works integrated engineering environment. GX Works3 offers a wide range of options including dynamic labels, parameterisation instead of programming and

the automatic creation of hardware function blocks as well as visual function blocks including HMI templates. These features help to reduce development costs and potential error sources.

The new modular control concept MELSEC iQ-R from Mitsubishi Electric will increase plant productivity and reduce total operating costs at the same time. The modular Multi-CPU system is also faster and more efficient than its predecessor and uses synchronised output modules as well as synchronised PLC and network scans. The optimised system design allows the integration of standard and safety control systems on one single rack and it is also possible to connect to open networks such as CC-Link, CC-Link IE Field, Profibus, Profinet and a wide range of third party networks. Users will also have a range of integrated communication protocols to choose from in order to make the process of connection as simple as possible.

The PLC is equipped with an SD card slot, enabling production data to be recorded and processed quickly and easily as well as storage of all the parameters of the system, including intelligent modules and devices connected via CC-Link IE Field, on an SD card. The new controller is also equipped with digital safety I/O modules. Besides the enhanced connectivity permitting integration with other Mitsubishi Electric automation components, the MELSEC iQ-R is fully backward compatible, enabling the continued use of MELSEC Q series programs and enables seamless migration. In addition, terminal compatibility will reduce wiring costs considerably. Adapter carriers permit the re-use of System Q modules while firmware updates will ensure that the new CPUs are kept up-to-date with the latest developments at all times.

Mitsubishi Electric will be launching the new MELSEC iQ-R on the market during the course of 2014 while continuing to develop the control concept.

Photo Caption



Picture 1: The new modular high-performance controller MELSEC iQ-R will significantly reduce development costs as well as maintenance and operating costs. At the same time, considerably improved performance and comprehensive functionalities will also guarantee increased safety, reliable production processes and reduced downtimes.

About Mitsubishi Electric:

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized 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, water and waste water, transportation and building equipment.

With around 121.000 employees the company recorded consolidated group sales of 29,5 billion Euro* in the fiscal year ended March 31, 2013. Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

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 120,69 Yen = 1 Euro, Stand 31.3.2013 (Source: Deutsche Bundesbank)*

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