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Mitsubishi Electric sets the standard with its next generation process automation controller iQ-R and provides high efficiency

Smarter Factories with iQ-R

Providing Turkey's leading industry corporations with added value thanks to its technologies for smart factories, Mitsubishi Electric draws attention with iQ-R series, the new player of iQ Platform revolution that combines all automation components and integrates control and communication. The new series promises higher efficiency and cost savings and is designed with quality and high performance in mind.

Standing out for its advanced technology automation products that provide factories with rapid integration, productivity, flexibility and efficiency, Mitsubishi Electric provides digital factories of Industry 4.0 a ready-to-use platform with its new process automation controller iQ-R series. Able to provide high-level control and communication integration in a hardware platform with high scalability, thus able to monitor and match work processes at the same time, the new series of iQ Platform, iQ-R, stands out with its high processing performance even in challenging automation environments.



Stating that they focused on increasing equipment value and product quality while designing the iQ-R series that makes factory control smarter, **Mitsubishi Electric Turkey Factory Automation Systems Manager of Product Management Department Cem Kibrıslı** said that this way, users can have better performance for lower costs with an advanced and efficient system. Stating that iQ-R series provide advantages in all phases

from the start and design of PLC system to following installation, operation and maintenance, Cem Kibrıslı said that they also provide a way to improve in the phases of developing equipments and manufacturing lines.

Increased efficiency with high performance CPU

Emphasizing that, iQ-R series that stand out for its new performance standards increase efficiency with its; 0,14 msn scanning time, up to 419 commands per millisecond processing capacity and 0,98 msn LD command speed, Kibrıslı stated, "We can even perform operations that require multiple CPUs on a single CPU, reducing costs considerably. Additionally, supporting multiple CPU usage, we make it possible for users to develop more complicated and advanced automation applications."

Secure data storage

Stating that iQ-R series incorporate synchronized PLC and network scan to reduce data transfer delays and increase production quality, Kıbrıslı said that they also remove the need for a position detection sensor in all output modules, thus reducing total system costs and making precise controlled synchronization possible. Stating that crucial steps of factory automation can be stored in integrated database, Kıbrıslı said, "With iQ-R series, even in the case of network crashes and disrupted communication with PC database, whole automation system does not halt. Also, iQ-R can back-up and restore all PLC system data including, CC-Link IE Field network devices."

Cost reducing maintenance

Stating that they combined numerous operations that reduce maintenance costs in this series, Kıbrıslı said, "In iQ-R series, we made it possible to store possible errors in an integrated memory. We can record and store all operation information and make it possible to analyze all such data, thus reducing stoppages and maintenance costs."



Non-stop communication

Cem Kıbrıslı said, "iQ-R series; make it possible to make use of Mitsubishi Electric Seamless Message Protocol (SLMP) while monitoring devices anywhere while bypassing network layers when connected to other devices over CC-Link IE, CC-Link IE Field or Ethernet. This way, users no longer need to write codes for communication installation and it is enough to simply choose communication protocol and tags in order to activate PLC and connected devices for communication."

Security key protection

Stating that iQ-R series provide extra protection by plugging a hardware security key in CPU, Kıbrıslı said, "This way, we can prevent any unauthorized person from changing or copying a program. Also, by cyphering data in security key, access to devices is limited and extra safety wall can be created. iQ-R series run all this in addition to user id verification function."

MELSEC System Q Compatibility

Emphasizing that iQ-R series is fully compatible with MELSEC System Q modules and terminal blocks so that it provides an easy upgrade method to users, Cem Kıbrıslı said, "The ability to transfer programs written for MELSEC System Q directly into iQ-R series in the case of a system upgrade is another feature of the series that reduce programming costs." finishing his words.

About Mitsubishi Electric Corporation

With over 95 years of experience in providing reliable, high-quality products, 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, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,519.9 billion yen (in accordance with IFRS; US\$ 40.7 billion) in the fiscal year ended March 31, 2019. For more information visit: www.MitsubishiElectric.com*

**At an exchange rate of 111 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2019.*

About Mitsubishi Electric's Activities in Turkey

Main fields of activity of Mitsubishi Electric that stand out with its advanced technology solutions in various areas ranging from "Home to Space" in Turkey are; air conditioning systems, industrial automation systems, advanced robot technologies, CNC mechatronics systems, elevator and escalator systems and visual data systems. Designating Turkey whose power and potential it believes in as a major production headquarter, Mitsubishi Electric produces energy efficient and environment-friendly air conditioners for Europe and Turkey in its digital factory in Manisa which is the brand's first room air conditioner factory in Europe. Working to integrate factories of Turkish industry into digital transformation period, Mitsubishi Electric also draws attention with its automation technologies in the world's deepest sunken tube tunnel, the Marmaray project. Operating in several fields in Turkey such as automotive components, semi-conductor devices, transportation and energy systems, Mitsubishi Electric applies its radar technology which is developed for airports to increase safety for airplanes and flights within its operations in public systems in Antalya Airport. One of the leading developers in space research and development systems, Mitsubishi Electric is also the manufacturer of Turksat 4A and 4B satellites which contributes to Turkey's and neighboring countries' communication and broadcasting infrastructure. For detailed information; tr.mitsubishielectric.com

About Mitsubishi Electric Turkey Factory Automation Systems

Mitsubishi Electric Turkey Factory Automation Systems; provide added value in terms of rapid integration, productivity, flexibility and productivity to the leading industrial companies in Turkey in various fields such as automotive, food, packaging, metal and PVC processing machines. The new industry, also called "Industry 4.0", responds with e-F@ctory, i.e. the digital factory concept. For more information; tr3a.mitsubishielectric.com

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