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New ‘Panel Inverter Solution Platform’ comes as an all-encompassing solution for automation products

Mitsubishi Electric launches a new product compatible with Industry 4.0

Mitsubishi Electric, a giant of technology which is preferred globally by manufacturers for its high-tech automation systems, offers a brand new product, “Panel Inverter Solution Platform” which is compatible with Industry 4.0. As an all-encompassing solution for Mitsubishi Electric’s new generation automation products, the platform will enable industrial plants and infrastructure projects to be commissioned in a relatively short while.

Recognized for its efforts to provide Turkish industrialists with high-tech automation solutions with high added value, Mitsubishi Electric combines the innovative automation system solutions under “Panel Inverter Solution Platform” which is compatible with Industry 4.0. Distinguished with its outer cabin which will be manufactured in Turkey, the platform will enable industrial plants and infrastructure projects to be commissioned in a relatively short while.

As the automation of various processes such as fans, pumps, compressors, air-conditioning plants, mills, conveyors, cranes, breakers, mixers, and opening-spinning applications becomes more practical and efficient than before, “Panel Inverter Solution Platform” also eliminates the need for supplementary hardware thanks to the embedded ready-made solution parameters and programs. The platform comes with a far-fledged

infrastructure offering PLC control system solution, low harmonic converter solution, break unit and break resistance solution and panel cooling system solution in addition to panel inverter solution. Besides, the platform may be procured in parts or in groups based on the requirements of individual plants and projects thanks to its wide range of options and modular structure.



Modular panel system with EN 61439-1/2 type test standards



Mitsubishi Electric's new platform boasts of a modular design equipped with bar systems and accessories meeting EN 61439-1/2 type test standards and manufactured in line with assembly instructions in addition to undergoing short circuit and temperature rise tests. Developed in line with Mitsubishi Electric's high quality principle, the platform

offers a wide range of panel IP options from IP21 to IP54 which are capable of operating effectively under humidity as high as 95 per cent and ambient temperature ranging from -10°C to 50°C. Also, it enables smooth grounding continuity with its peak ventilation system comprised of fans and fan modules with high emission performance and non-welded skeleton structure.

A800 and F800 inverters are upgraded

Recognized for its improved standard specifications including unprecedented engine identification for permanent magnet and asynchronous engines, V/f and vector control operation, on and off-line vector control, speed, torque and position control, "Panel Inverter Solution Platform" provided high process compatibility. Boosted with A800 series inverters which are distinguished for their unprecedented lifting, moving and positioning functions, the panel inverter solutions come with 250 per cent excessive load capacity, improved breaking capability, and off-line operational capacity. The panel inverter solutions which are further reinforced with F800 inverters with inherently improved fan pumping functions offer optimal flow rate, pressure and temperature control advantages thanks to the superior PID technology.

Exclusive solutions to exclusive applications with A800 Plus series

The new inverter series A800 Plus will outrun conventional frequency inverters thanks to

special functions developed for platform, crane, opening-spinning and lift applications.

Smart platform compatible with EN 50598-2 Class IE2 European Ecodesign Standards

In addition to outstanding efficiency up to 98 per cent according to European Ecodesign Standard, the platform further increases energy efficiency thanks to its permanent magnet engine drive functions. Leveraged with 6K memory capacity, 19ns cycle rate, and improved internal PLC architecture, the platform makes it possible to perform any operating scenario with the inverter without further need to procure any other equipment. The platform, which is equipped with an LCD parameter unit in Turkish language with a real-time clock, is capable of communicating with GT2000 series operator panels automatically in plug-and-play configuration.

Ease of maintenance, connectivity and remote access



Mitsubishi Electric's "Panel Inverter Solution Platform" minimizes maintenance costs and downtime thanks to a number of specifications such as real-time data monitoring, long-term record of data on USB, internal preventive maintenance and improved failure history track. Operators may connect to the platform remotely via Web Server or Wi-Fi in order to receive operating status information, set parameters and monitor alarms. The platform is compatible with CC-Link, Profibus, Profinet, EtherCat, Ethernet-IP, DeviceNet, Can Open, Lonworks, Modbus-RTU, Modbus TCP/IP, BacNet and BacNet IP communication options.

Fast installation and high safety

The platform, with its improved energy saving monitor, allows for fast and easy installation, commissioning and troubleshooting operations. Coming with Mini-B USB programming port, the platform also makes it possible to use USB 2.0 memory card to copy and review inverter parameters and PLC program in addition to extracting trends and transmitting data. Integrated emergency stop (SIL2) function promotes high safety while the option to deny access to parameters and the program available in internal PLC increases safety further by protecting proprietary information.

About Mitsubishi Electric Corporation

With over 90 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 endeavours to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,394.3 billion yen (US\$ 38.8 billion) in the fiscal year ended March 31, 2016. For more information visit: www.MitsubishiElectric.com*

** At an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016.*

About Mitsubishi Electric Turkey Operations

Mitsubishi Electric concentrates on sales and after-sales services for HVAC systems, factory automation systems, CNC-Mechatronics systems and advanced robot technologies in Turkey. In addition, the company provides support for satellite, elevator, visual data systems, power sources and transportation-based infrastructure projects. Mitsubishi Electric, the acknowledged manufacturer of Turksat 4A and 4B satellites contributing to communication and broadcasting infrastructure of Turkey and neighbouring countries, is also recognized for the automation technology used for Marmaray project. Having incorporated a company for development and manufacturing of room air-conditioners in Turkey in April 2016, Mitsubishi Electric intends to start manufacturing operations in Manisa plant by January 2018. For more information visit: tr.mitsubishielectric.com

About Mitsubishi Electric Turkey Factory Automation Systems

Mitsubishi Electric Turkey Factory Automation Systems division provides added value to leading industrial corporations in Turkey in a range of fields including automotive, foodstuff, packaging, metal and PVC processing machinery in terms of fast integration, efficiency, flexibility and productivity. It has adapted to "Industry 4.0", the new industrial phase, with its digital factory platform known as e-F@ctory. For more information visit: tr3a.mitsubishielectric.com