

Enabling the Smart Factory with new MELIPC edge computing

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Companies with a requirement to combine factory floor operational technology (OT) and IT systems now have a new option from Mitsubishi Electric. The MELIPC edge computing solution offers optimisations such as predictive maintenance or quality control with real-time data analysis and early feedback to the operator.

Manufacturing quality and productivity gains can be made in industries such as automotive, food & beverage and life science using the MELIPC solution. The real-time process software provides local diagnostics, predictive feedback and visualisation for shop-floor analytics.

Analysis algorithms for predictive maintenance and quality control are already on-board of the MELIPC Series. In continuous production applications it can improve processes as well as adapting to variables. Efficiency is improved by generating a live predictive model, which can be updated and refined based on new demands from the process. A packaging machine in a food & beverage application for instance can predict issues and avoid mistakes, thereby improving quality.

The MELIPC solution can recognise anomalies in machine status in real time by making use of artificial intelligence (AI). In an automotive paint shop for example, it can be used to prevent downtime. Detailed status information is reported back to the automation level so that machine operators can make pro-active early adjustment or maintenance interventions to maintain efficiency and increase availability.

Processing data at the physical edge of operations can also improve data security and process integrity. In a life science application, the [MELIPC](#) solution can be used to store and analyse sensitive information on OT level, instead of it being sent up into the cloud. This also provides much faster real-time-diagnosis while reducing IT infrastructure cost and requirements.

The new MELIPC solution complements Mitsubishi Electric's existing edge computing portfolio such as the MAPS SCADA, data logging and Controller modules.



Image Caption: Industry 4.0 style process optimisation with real-time data analysis and early feedback to the operator is offered by the Mitsubishi Electric MELiPC edge computing solutions.

[Source: Mitsubishi Electric Europe B.V.]

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About Mitsubishi Electric

With nearly 100 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, mobility and building technology, as well as heating, cooling and air-conditioning technology.

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.

With around 145,800 employees the company recorded consolidated group sales of 40.7 billion US Dollar* in the fiscal year ended March 31, 2019.

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

Factory Automation EMEA

Mitsubishi Electric Europe B.V., Factory Automation EMEA has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V. that has been represented in Germany since 1978, a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

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

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

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