

Mitsubishi Electric's new teaching box speeds up MELFA robot deployment

Ratingen, Germany 09 January 2024

Mitsubishi Electric has launched the R86TB, a new, high-performance teaching box. This is designed to help users, machine builders and system integrators setup, program, repurpose, maintain as well as troubleshoot industrial and collaborative MELFA robots. As a result, the latest solution simplifies human-machine interactions and supports the creation of highly effective automated operations.



[Source: Mitsubishi Electric Europe, Germany]

The R86TB multifunctional operating and programming panel builds on the foundation laid by Mitsubishi Electric's existing teaching boxes. It offers

a cost-effective, even more intuitive and easy to use platform with enhanced functionalities to monitor and program both the latest MELFA robots as well as prior generations. The device facilitates the comprehensive control of the connected robot via a variety of easy-to-use screens. These can be accessed from a large, high definition 10.1” display. This means that the newly released solution can support users with limited robotics skills in the effective implementation of entry-level applications as well as help more experienced professionals streamline the creation of advanced applications.

In particular, the R86TB features 3D visualisation capabilities to help machine builders, system integrators and end users plan, set up and program robotic tasks in an environment that mimics the physical settings. This function is complemented by programming support capabilities, parameter inputting and programming interfaces, as well as a dedicated section for diagnostics. All these are based on Mitsubishi Electric’s robot engineering software RT Toolbox3, simplifying user adoption and use of these platforms while ensuring consistency.

In addition to these functions, the R86TB high-performance teaching box also supports quick and early troubleshooting without the need for a computer. As a result, it can optimize the uptime and performance of automated applications.

Oliver Giertz, Strategic Product Manager Servo/Motion/Robotics EMEA at Mitsubishi Electric Europe, comments: “We are excited to release this new teaching box and drive the implementation of highly effective robotic setups even further forward. The R86TB is designed as an ideal interface to easily interact with MELFA robots across their entire service life and will greatly help customers take full advantage of the capabilities of these machines.”

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About Mitsubishi Electric Corporation

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) 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. Mitsubishi Electric enriches society with technology in the spirit of its “Changes for the Better.” The company recorded a revenue of 5,003.6 billion yen (U.S.\$ 37.3 billion*) in the fiscal year ended March 31, 2023.

For more information, please visit www.MitsubishiElectric.com

**U.S. dollar amounts are translated from yen at the rate of ¥134=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2023.*

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Offering a vast range of automation and processing technologies, including controllers, drive products, power distribution and control products, electrical discharge machines, electron beam machines, laser processing machines, computerized numerical controllers, and industrial robots, Mitsubishi Electric helps bring higher productivity – and quality – to the factory floor. In addition, its extensive service networks around the globe provide direct communication and comprehensive support to customers. The global slogan “Automating the World” shows the company’s approach to leverage automation for the betterment of society, through the application of advanced technology, sharing know how and supporting customers as a trusted partner.

For more about the story behind “Automating the World” please visit:

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Factory Automation EMEA

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For more information, please visit emea.mitsubishielectric.com/fa

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e-F@ctory is Mitsubishi Electric's integrated concept to build reliable and flexible manufacturing systems that enable users to achieve many of their high speed, information driven manufacturing aspirations. Through its partner solution activity, the e-F@ctory Alliance, and its work with open network associations such as the CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide ranging "best in class" principle.

In summary, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated manufacturing but still retain the ability to choose the most optimal suppliers and solutions.

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