*MX-System extended with two pneumatic modules*

# Control cabinet-free automation now also includes pneumatic valves

**In November 2021, Beckhoff presented the MX-System: a completely new, holistic concept which aims to eliminated control cabinets. The basic concept aims to replace control cabinet wiring with a baseplate that allows a wide range of electronic modules to be automatically interconnected via standardized interfaces. All classic control cabinet functions are covered and pneumatic valves from Festo and SMC can now also be integrated directly with the help of two new modules.**

The MX-System modules (contained in metal housing) can simply be plugged in and screwed onto the baseplate to create a housing unit that is waterproof and dustproof, meaning that it can be used directly on the machine or system without any additional protective housing. The MX-System's current range of functions already covers all typical control cabinet activities, i.e. reading in electrical sensor signals, controlling many types of actuators or motors across power classes, generating a multitude of voltages, and power distribution. With two new modules, pneumatic valves from Festo and SMC can now also be integrated directly into the MX-System as a function.

Beckhoff has developed two socket modules – MO2414 for Festo and MO2424 for SMC – with the standard MX-System interface for the respective valve type. The air supply for up to two Festo VUVG or SMC JSY3000 valves (with up to 500 l/min flow rate, depending on the manufacturer) can be connected to it. These can be mounted directly on the modules, and different variants such as 3/2-, 5/2-, or 5/3-way valves can also be combined with each other. While the MX-System

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socket module provides the valve air supply and the control signals, the outgoing hoses are connected directly to the respective valve.

The new MO2414 and MO2424 pneumatic modules expand the functional scope of the MX-System and consolidate its integrated approach to automating machines and plants. The basic idea of setting up the control cabinet as a distributed system and mounting the control system for actuators and sensors close by is now also an option for pneumatics. This is a particularly appropriate solution when there are only a few pneumatic functions on a machine part: the MX-System assembly offers an extremely simple way to control them. In addition, the MX-System allows valve terminals to be controlled with a wide variety of interfaces. Furthermore, the advantages of simplified project planning and component reduction can now also be applied for pneumatics. Plus, no additional installation space is needed on the machine for the valves. Another advantage is that the Beckhoff Service App, which was developed specifically for the MX-System, now also minimizes maintenance work for the pneumatics.

➔ **www.beckhoff.com/mx-system**

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**Press picture:**

**Picture caption:**

Pneumatic valves from Festo or SMC can be integrated directly into the MX-System with the new MO2414 and MO2424 (both right) pneumatic modules.

**Press kit:**

www.beckhoff.com/media/downloads/press/pr152023_beckhoff.zip

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