



INTERNATIONAL TRAINING

# MAP-205 SE 14.0

## Assembly Minicell 4.0



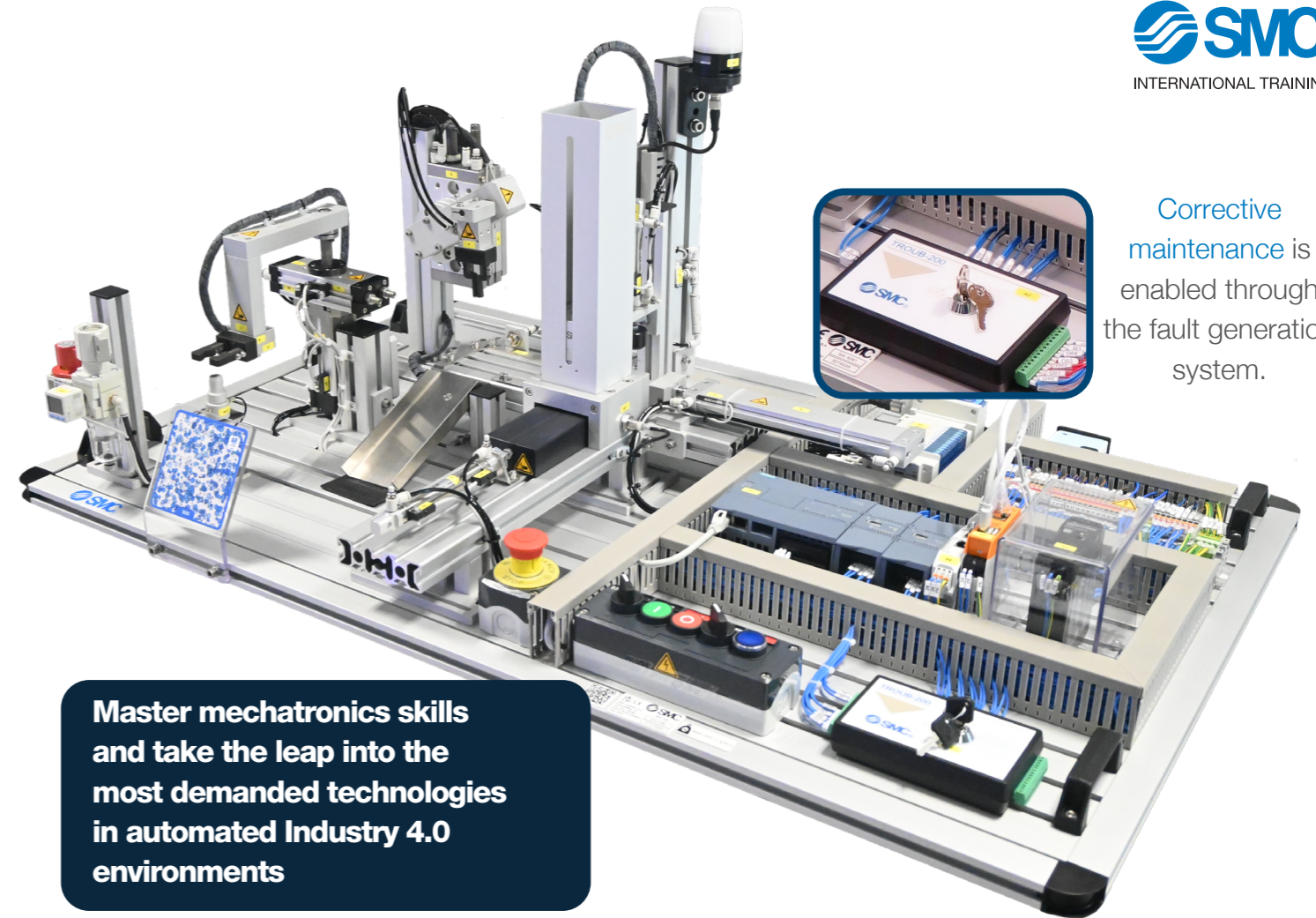
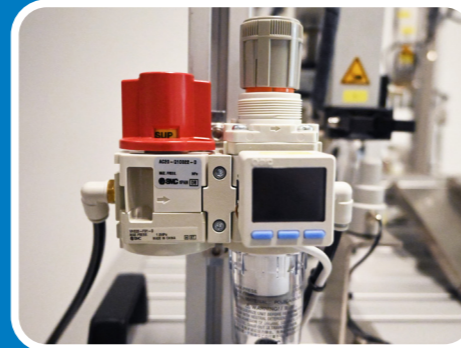
EN

# MAP-205 SE I4.0

## Assembly Minicell 4.0: connect, automate, evolve.

Assembly Minicell 4.0 evolves from traditional mechatronics into an intelligent solution ready to meet the challenges of Industry 4.0.

Thanks to the integration of advanced technologies such as augmented reality, IoT connectivity, and energy efficiency, this system not only automates assembly processes but also optimizes them according to production needs.



Corrective maintenance is enabled through the fault generation system.

**Master mechatronics skills and take the leap into the most demanded technologies in automated Industry 4.0 environments**

Industrial Communications

Augmented Reality

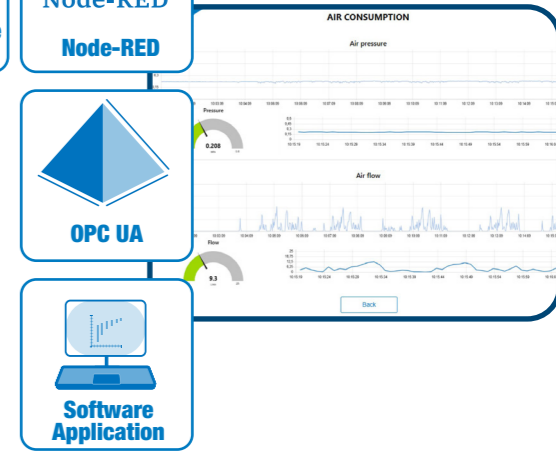
IO-Link Smart Devices

Energy Efficiency

Programmable Controllers

Node-RED

In addition to the most common technologies in mechatronics and automated systems—such as pneumatics, advanced electro-pneumatics, vacuum technology, and sensors—the MAP-205 SE I4.0 system also integrates Industry 4.0 technologies currently present in modern production systems, including smart devices, system access via software platforms, and augmented reality, among others.



OPC UA

Software Application

It includes a software application developed in Node-RED, which communicates with the equipment via OPC-UA. This application is installed and run on a compact PC included in the system, offering the following functionalities:

- Monitoring of compressed air consumption.
- Preventive maintenance of the solenoid valve block.
- IO-Link beacon configuration.

**Use it also as a platform for developing study, analysis, and research projects.**

MAP-205 SE I4.0 represents an automated assembly system where the assembly and subsequent disassembly of a rotary mechanism are carried out.

### How to order

MAP<sup>a</sup> S05<sup>a</sup> - I<sup>1</sup> A<sup>2</sup> - 01<sup>3</sup>

#### 1 Socket

I		L	
J		M	
K		N	

#### 2 Documentation language

- A Spanish
- B English

#### 3 PLC

- 01 SIEMENS S7-1200
- 04 ALLEN-BRADLEY COMPACTLOGIX
- 06 OMRON – NX
- 09 SCHNEIDER M200
- 11 MITSUBISHI – FX5

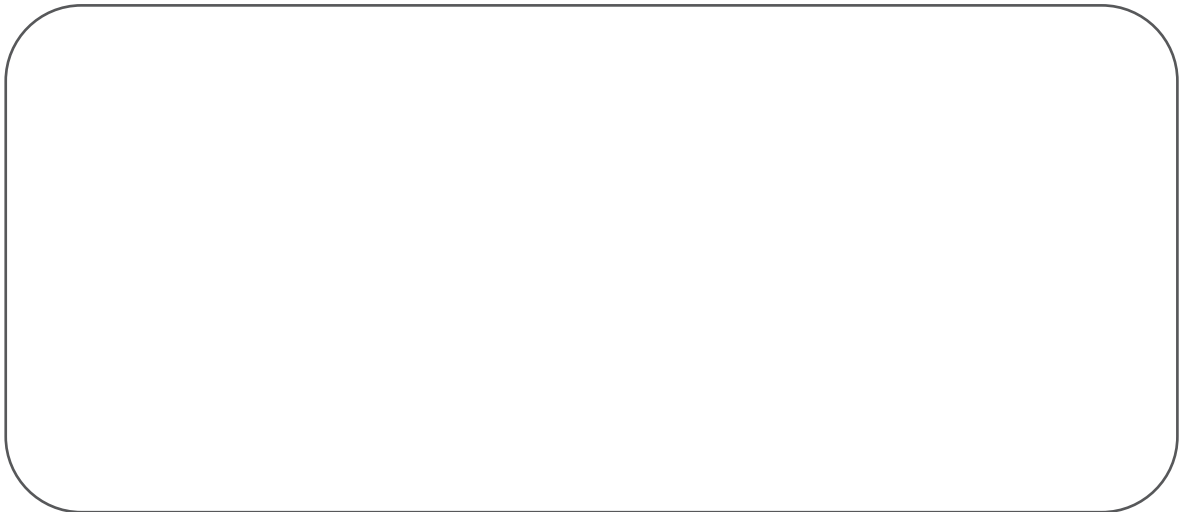
\* The content of this document may change without prior notification



Expertise  
Passion  
Automation



WEB

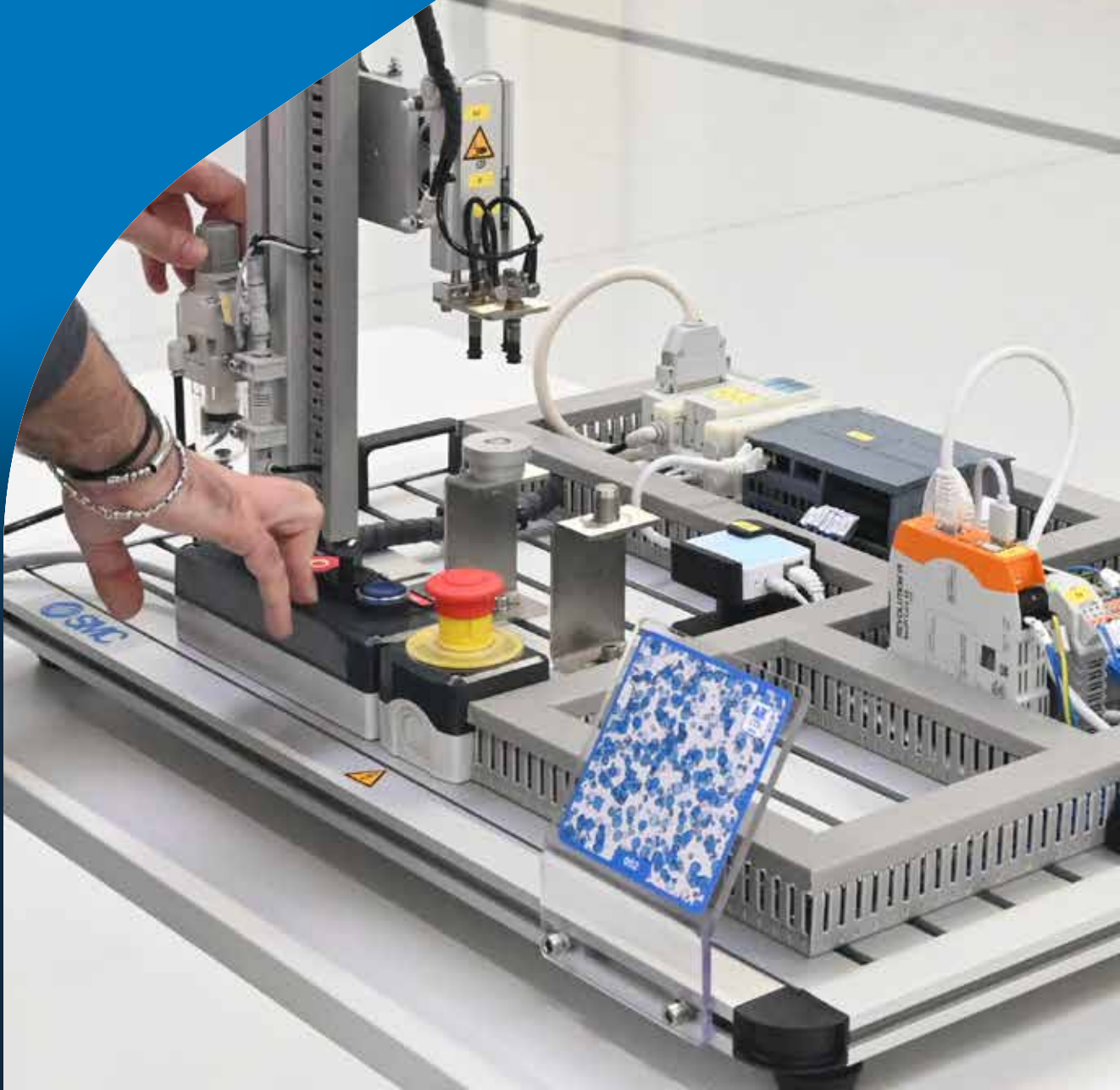


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IT-MAP-205 SE I4.0-V1-2

# MAP-202-IoT

**“Pick & place”  
manipulator with IoT**



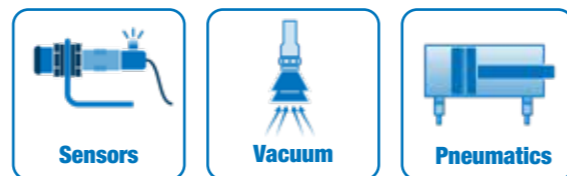
# MAP-202-IoT

## Manipulators with two axes held by vacuum with IoT.

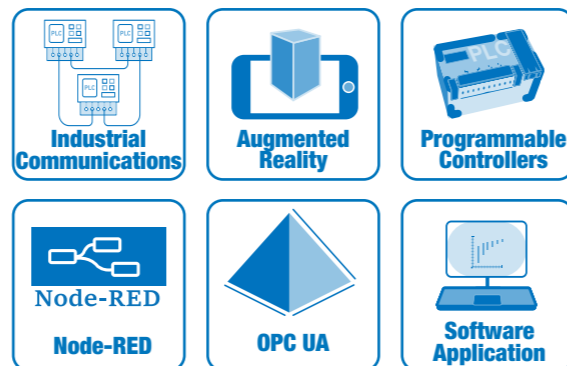
Cartesian manipulator designed to evolve automation training towards a connected, smart environment aligned with the current challenges of Industry 4.0.

Thanks to the integration of advanced technologies such as IoT connectivity, programmable controllers and augmented reality, the MAP-202-IoT not only automates the movement and handling of parts, but also offers a comprehensive, modern training experience geared towards current production systems.

In addition to the usual mechatronics technologies:



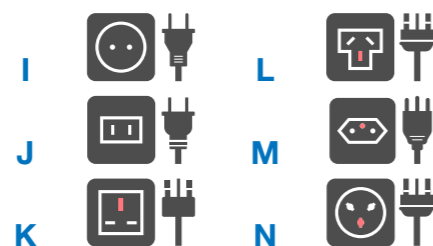
Key Industry 4.0 technologies:



### How to order

MAP<sup>a</sup> S02<sup>a</sup> - I<sup>1</sup>A<sup>2</sup> - 01<sup>3</sup>02<sup>4</sup>

#### 1 Socket



#### 3 PLC

- 01 SIEMENS S7-1200
- 04 ALLEN-BRADLEY COMPACTLOGIX
- 06 OMRON – NX
- 09 SCHNEIDER M200
- 11 MITSUBISHI – FX5

#### 2 Documentation language

- A Spanish
- B English

#### 4 Optionals

- 00 Without optionals
- 02 With troubleshooting box

\* The content of this document may change without prior notification



Wireless!

Connect to the Wi-Fi access point from any device.



Corrective maintenance is enabled through the fault generation system (Optional).

Available for IOS and Android



The MAP-202-IoT is a unit designed to offer a comprehensive training experience in automation and mechatronics which also integrates 4.0 technologies present in today's productive environments.

This version includes capabilities focused on connectivity and advanced monitoring, making it possible to work with concepts specific to current production environments and expand the use of IoT technologies in system maintenance and operation.

#### DIGITALISATION:

A compact PC is included in the system with an augmented reality server for real-time visualisation of machine variables, as well as a software application developed in Node-RED that communicates with the unit via OPC-UA. This web application allows **PREVENTIVE MAINTENANCE** functions to be carried out on the three pneumatic actuators based on information from the solenoid valve block.

#### MAIN FUNCTIONS:

- **CYCLE COUNTING**

Individual monitoring of the number of cycles in three solenoid valves.

- **END OF SERVICE LIFE**

Configuration of a setpoint to simulate when each solenoid valve should be replaced.

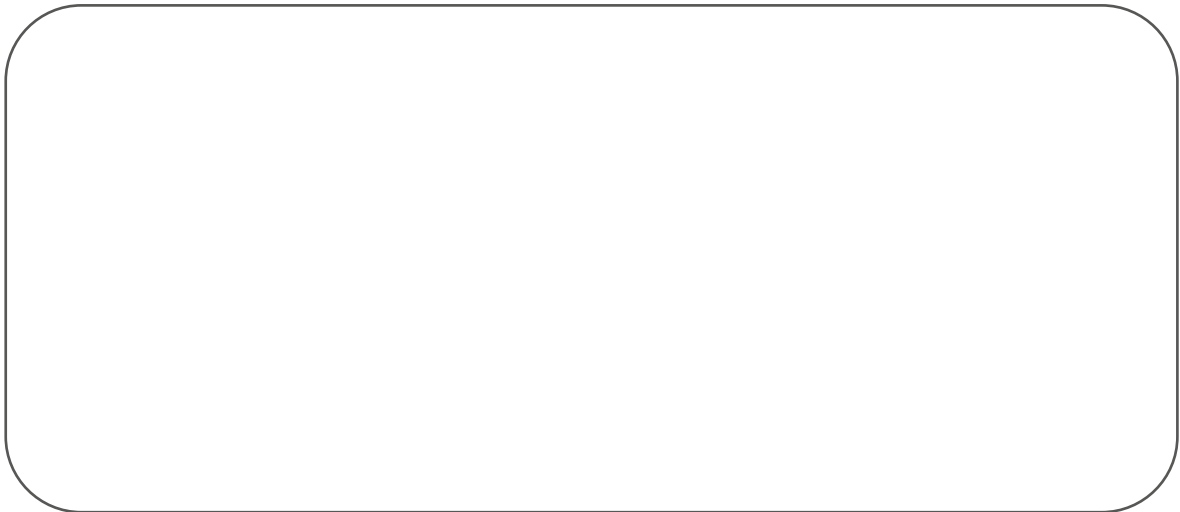




Expertise  
Passion  
Automation



WEB



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IT-MAP-202-IoT-V1-2