



EUROPASS CERTIFICATE SUPPLEMENT

Manual Fragrance Dispenser

Verssion_20251128





This project has been funded with the support from the European Commission

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The holder of this certificate has acquired the following skills and competences:

Technical and Professional Competences

- **Industrial Automation and PLC Programming:** Proficiency in developing structured control logic using Siemens TIA Portal for S7-1200 PLCs, managing organizational blocks (OB) and functions (FC) to automate industrial dispensing cycles.
- **Hardware Configuration and Electrical Wiring:** Capacity to select and address hardware modules, interpret complex electrical diagrams, and perform the physical wiring of control panels according to industrial safety standards.
- **Industrial Sensor and Actuator Integration:** Expertise in connecting and scaling field devices, including presence detectors, dosing pumps, and pneumatic or hydraulic actuators, ensuring correct signal processing.
- **Remote Laboratory and Network Management:** Ability to configure Ethernet/PROFINET communication protocols to enable remote access, allowing for the telecontrol and monitoring of industrial equipment from external locations.
- **System Diagnostics and Troubleshooting:** Skill in identifying and resolving malfunctions in automated systems by monitoring real-time variables, verifying electrical parameters, and debugging PLC code.
- **Technical Documentation and Manual Design:** Capability to produce professional workshop manuals and technical guides, including circuit diagrams and step-by-step operational procedures for end-users and technicians.

Transversal Competences

- **Logical and Process-Oriented Thinking:** Ability to decompose complex industrial processes (e.g., sequential liquid dosing or remote laboratory workflows) into efficient and safe algorithmic sequences.
- **Safety and Environmental Awareness:** Commitment to applying occupational risk prevention protocols and ensuring the efficient use of materials and energy in automated installations.
- **Technical Research and Technology Assessment:** Capacity to analyze and compare different automation solutions (e.g., different PLC models or communication interfaces) to optimize system performance and reliability.
- **Self-Management and Project Documentation:** Proficiency in organizing technical tasks, from the initial drafting of schemes to the final validation and reporting of the system's operational status.

DATE

FACILITATOR SIGNATURE

EDUCATIVE INSTITUTION STAMP

