



Title

INTELLIGENT AUTOMATION SYSTEM BASED ON A DISTRIBUTED, RECONFIGURABLE AND ADAPTIVE ARCHITECTURE



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Short presentation

Invention describes an automation system for command, control, monitoring and configuration of industrial equipments and products, having a rapid reconfigurable, adaptive, dynamic architecture, where equipment/products are endowed with a minimum level of distributed intelligence. The architecture is constituted from a control unit, I/O equipments of high priority, I/O equipments of low priority, as well as adapters that are specific to the I/O equipments with high and low priority. When an intelligent equipment is connected, it configures its internal modules, then waits for the general interrogation, answers to it, and afterwards waits to be auto-integrated in the process, configured by the operator and programmed by means of the HMI and the control unit.



Applicability

industry (automation), smart buildings, robotics, extensions to various industrial products to increase intelligence.



Images

