Dear Customer,

I like summarize here the (remarkable) advantages of an automation system, installed on mobile machines (automotive and off-highway), based on an Ecu (Electronic control unit), instead of on a Plc (Programmable logic controller, ie programmable logic controller).

1) The Ecu does not require the addition of power interfaces for the control of solenoid valves and actuators, such as the PLC, reducing costs and dimensions.

2) The Ecu does not require to be inserted in an electrical panel, like the Plc, reducing costs and dimensions.

3) The Ecu is a resinated object and as such protected from atmospheric and chemical agents, not like the Plc.

4) The Ecu is used on mobile machines (outdoors), while the Plc is used on fixed machines (inside buildings).

5) The Ecu has a power supply port (plug) suitable to be installed with an energy source consisting of battery and motor alternator, while the Plc no.

6) The Ecu is protected from voltage drops and voltage peaks, while the Plc does not.
7) The Ecu can operate on a CAN-bus network, allowing an optimal distribution of resources (inputs and outputs) and greatly reducing the need for cables, while the PLC does not.

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Matteo Passoni, Eng PhD

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REFERENCE LIST

As reference we do have:

SANLITUN, Italian Embassy to Beijing, downtown Sunlitun, PRC
EZDK steel, Alexandria of Egypt, EGYPT
SHAPIR & PIZZARROTTI JV, A1 Tel Aviv, ISRAEL
VALE DO RIO DOCE S.A., Patyo’s 1-4, City of Vitoria, ES, BRAZIL
ENDESA, CTE LEON, City of Leon, SPAIN
GAZPROM, City of Tuapse, RUSSIA
ENEL PRODUZIONE SPA, CTE SULCIS, Portovesme, ITALY
ENEL PRODUZIONE SPA, CTE BASTARDO, Perugia, ITALY
ENEL PRODUZIONE SPA, CTE FUSINA, Marghera, ITALY
ENEL PRODUZIONE SPA, CTE VADO LIGURE, Savona, ITALY
ENEL PRODUZIONE SPA, CTE SPEZIA, La Spezia, ITALY
BHP, Melbourne, AUSTRALIA
RIOTINTO, City of Port Albert, CANADA
RIOTINTO, Brisbane, AUSTRALIA
ANTOFAGASTA, loc. Los Pelambres, CHILE
DBswana, city of Jwaneng, BOTSWANA

VALE S.A., Vitoria, Brazil

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