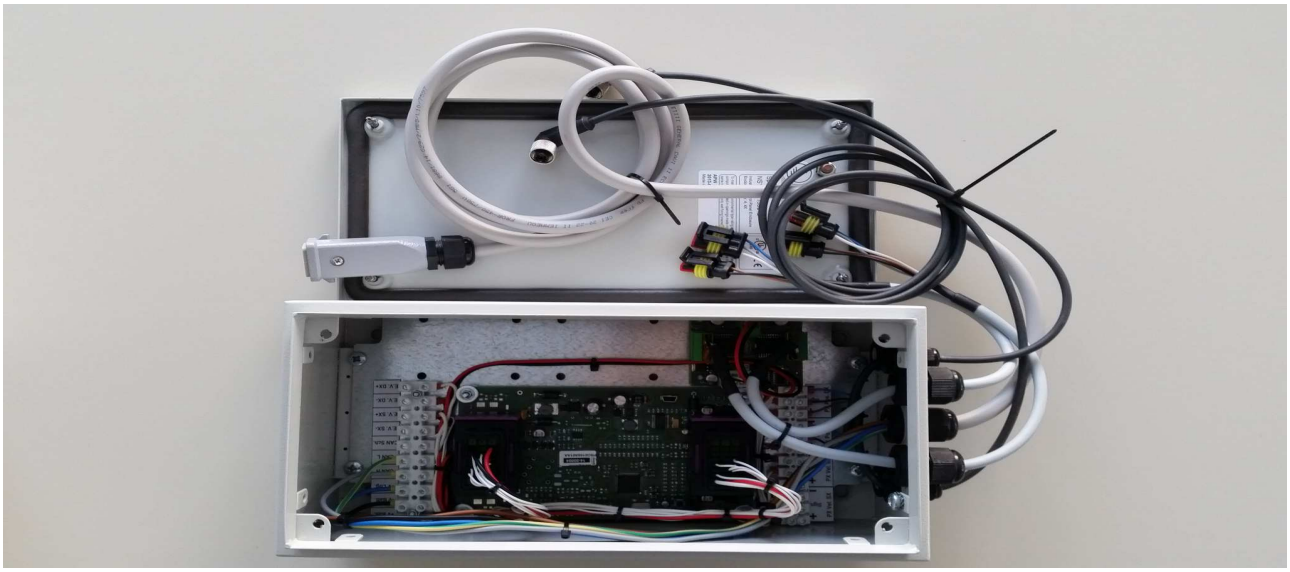
Control Systems Agricultural Machinery

Sheet 15

Electronic on-board control systems for agricultural machinery

Automation systems for on-board control of agricultural machinery which allow a complete and effective control of the machines.
The systems can be composed by:
- various Esagon standard products, in the most appropriate overall configuration;
- various Esagon customized products, specially developed by Esagon for that client, in the most appropriate overall configuration;
- Esagon standard products and Esagon customized products, in the most appropriate overall configuration.

Besides the targeted development of the electronic boards, it is always necessary to assure the certainty of a system designed and developed for use in any condition, even the harshest. Boxes, wirings and connectors must be chosen with care, in order to properly protect the system. Through the necessary synergy and harmony between Esagon and its customer it is possible to design and develop automation systems tailored to specific needs, by assuring low costs and high performance.



Example of automation system for agricultural machinery

- Quality electronic systems, born from decades of experience and tailored to specific needs of the customer.
- Sustems designed and developed for use in harsh conditions.
- Customer support for the choice or direct supply of boxes, wirings and connectors, suitable for use.

Working conditions

Operational supply voltage:	**12V - 24V DC**
Working temperature:	**-20°C - +85°C**
Maximum working temperature:	**-40°C - +105°C**

Communication door

Communication door:	**USB**
Maximum data speed:	**115.2 Kbit/sec.**

CAN-Bus

CAN-Bus channel:	**FULL CAN 2.0 A e B**
Protocol standard:	**SAEJ1939**
Maximum speed:	**500 Kbit/sec.**

Inputs and outputs

Inputs protected against false contacts and outputs protected against over current, over temperature and short circuit.

Processing

:Microprocessor:	**16 bit**
Operational rate:	**56 MHz**
Flash memory program:	**256 + 32 Kbytes**

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