

OUR BUSINESS PARTNERS AMONG VEHICLE MANUFACTURERS:

IVECO Magirus Brandschutztechnik GmbH
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Camiva
Bronto Skylift AG
Rosenbauer International AG
Metz Aerials GmbH & Co. KG
Albert Ziegler GmbH & Co. KG
Moog GmbH
Bison stematec
WUMAG ELEVANT GmbH & Co KG
DOLL Fahrzeugbau GmbH
AL-KO Kober AG



ELECTRONIC CONTROL COMPONENTS

Hinrichs Electronic develops and produces **electronic controls for a wide range of applications** to highest quality and safety standards.

- **Programmable timing controls** for mixing and blending machines in the food industry
- **Electronic prop systems** for caravans and motor homes
- **Wired communication systems** for rescue vehicles for fire fighting and vehicles with lifting platform

Owing to their **precision and reliability**, our **electronic controls components** are integrated into fire-fighting vehicles since more than 30 years.



SERVICE / PRODUCT DEVELOPMENT

Hinrichs Electronic is a competent and competitive partner for **service and product development**. This includes the design of circuitry, the generation of software, the construction of prototypes and of pilot runs and job lots and the production of complete assemblies. The **quality management system** meets the requirements to DIN EN ISO 9001:2000 as well as the requirements of the national and international traffic regulations.



Presently we are developing a **visualization system** that is to pave the way for users to open up **new dimensions of programming**.

The system stands out by the **following features**:

- robust design with protection class up to IP 65
- fast 32 bit processor
- powerful graphic controller
- daylight compatible TFT display in VGA format
- big storage capacity for user programs
- two interfaces in CANopen standard
- operation via touch screen or alternatively via short-stroke keys
- inputs and outputs to control various functions
- real time clock

In addition, an **easy-to-learn programming tool** is available that allows the user to generate himself his programs quickly and easily. The software can be downloaded directly via CAN interface.

The **software package provided** includes, among others:

- a programming tool to generate the software to IEC 61131
- a software tool to generate graphic screen pictures

HERE IS A SELECTION OF CONTROL

Turntable ladder management / Visualization

The monitoring and control electronics is based on a CANBUS system – developed for the automotive sector for an ambient temperature range from -40° to $+85^{\circ}\text{C}$ and with protection class IP 65.

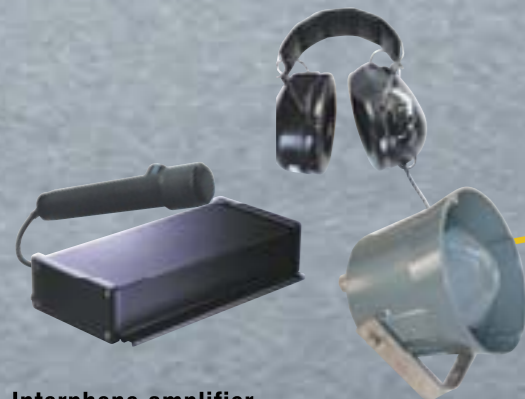
All commands from the operating stands are processed within milliseconds via a **modular design computer architecture**. The conception follows ergonomic aspects. Safe operation, clear layout by visualization via b/w or TFT colour screen and rugged operating elements are standard. Optional features of the colour operating display: plain language display, status messages, colour motion diagrams and logic pictograms for simple handling.

COMPONENTS BY HINRICHS ELECTRONIC:



Operating element

The operating element with joystick and softkeys for propping up the vehicle is a customized assembly which will be produced and installed by Hinrichs Electronic.



Interphone amplifier

The **wired communication systems** by Hinrichs Electronic can be used for announcements, as intercom system for communication between two positions and as intercom system with additional command system.

In addition to standard features such as weather resistance, ruggedness and freedom from interference, the units can optionally be equipped with various accessories.

