

HCY controller (off-highway)

Extended mobile controller

The HCY is a universal control device for mobile hydraulic applications. It is based on the proven Völkel platform, which contains two decades' experience in control system engineering. Safety features and a CAN network make it possible to use the HCY control system in a versatile manner and for complex tasks. The controller is available with customer-specific software. The PC program ConDoc enables a rapid adaptation to the individual machine data as well as a comprehensive diagnosis. The HCY hardware is also available as programmable logic controller. In this way the advantages of a controller tested in rough environment complement with the benefits of free programming according to the international standard IEC 61131-3. Integrated current drivers for proportional solenoids, analog inputs, frequency and switch inputs effect quick programming.

Highlights

- Robust aluminum housing for outdoor use, equipped with a ventilation membrane and a status LED, protection category IP65, IP69K
- 2 micro-controllers XC167CI/40 MHz and C505CA/4 MHz for reciprocal monitoring, each with voltage regulation, cycle generation and watchdog
- 6 configurable switch inputs
- 4 configurable frequency inputs
- 1 rotary frequency sensor input, pickup
- 1 clamp W, frequency input
- 8 configurable analog inputs
- 4 switch outputs
- 6 proportional solenoid outputs
- 1 safety relay for safety cut off
- 1 power supply output for Namur sensors and potentiometers
- Power supply: 8 V_{DC} to 32 V_{DC}
- 2 CAN interfaces for communication, expansion, connection
 - Use of CAN network variables via standard CAN (11-bit ID) and extended CAN (29-bit ID) for easy information exchange between two or more controllers
 - Adjustable CAN end resistors
- 1 EIA-232 (RS-232) interface for communication with programming software
- Reverse pole and overvoltage protection
- Flexible use of inputs and outputs due to parameter setting for selected functions
- Additional means of switching off using a safety relay according to the principle of closed circuit current
- Monitoring the current supply and reverse measurement of all outputs
- Various possibilities for monitoring inputs and outputs (e.g. recognition of cable breaks and short circuits).
- Plausibility checks for safety-critical parameters by logic operation and limited value monitoring

Contact

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Technical Information

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Features

No features listed.