



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Forklifts

Electronic Motion & Controls Division



ENGINEERING YOUR SUCCESS.

Electronic controls and solutions for forklifts

Parker – an experienced partner at your service

Market Knowledge and Solutions

Parker Electronic Motion & Controls Division commitment to the material handling industry is clearly demonstrated by the products, the solutions, and the customer service provided. Parker EMC has successfully integrated products that address the needs of forklift manufacturers for many years. We offer innovative solutions for operator displays, and CAN based control systems that increase productivity and optimize fuel consumption.

Value in Use

Parker has dedicated teams of specialists working globally to design systems, sub-systems and solutions to meet the most demanding requirements. Among the many immediate value adding benefits realized are; increased productivity, reduced production time, reduced fuel consumption and emissions, and reduced down time.

Certified Electronics

Parker offers comprehensive control systems specifically designed for the mobile industry, fulfilling the latest standards for safety and environmental protection. User-friendly application software tools are used to build up the complete system. The modules communicate via CAN bus, allowing different gateways to other systems. All of Parker's extensive knowledge and experience in motion control on mobile units is built in, providing optimum control and flexibility as well as on-board and remote diagnostics capabilities.

CM0711 controller module is suitable for use as a dedicated sub-system controller. It monitors digital, analog, and frequency inputs and controls proportional and digital outputs. Integrated CAN ports reduce wiring harness costs and installation costs.

IQAN-MD4 7" full color touchscreen display with CAN provides a clear interface for the operator to see the status of the control system, engine and hydraulics operation, as well as error messages.

The RS52 is a single output, non-contacting rotary sensor that is very robust and suitable for mobile hydraulic applications. The Hall Effect technology used is very reliable and designed for electromagnetic immunity.

Compact SCP pressure sensors monitor hydraulic system loading to monitor load moment and also prevent bogging down the engine while lifting.

Parker's UTS-ID Universal Tilt Sensor for Impact Detection communicates impact events and acceleration signals of impact magnitude and acceleration orientation information using SAE J1939 CAN bus protocol.

The IQAN-MC4x is a family of master controllers in the IQANdesign platform. There are 3 versions that can be used in different ways to meet the requirements of any system.

- MC41 for cost efficient task oriented control
- MC42 mid-size applications and I/O distribution
- MC43 large centralized control saves valuable space

GS Gear Speed Sensors provide a sinking output when detecting a ferrous target. They use back-biased, Hall Effect technology for zero speed sensing capability.

FP2000 and FP3000 ferrous proximity switches detect door closure.

RM50 tamper resistant tilt switch indicates hood or access panel position to lock out functions for safer machine maintenance.





Hydraulic fan drives allow for cooler operation and better coolant temperature control which improves emissions compliance and fuel economy. The fan drive controller can monitor temperatures through SAE J1939 CAN data, analog sensors or both for optimum cooling of engine coolant, hydraulic fluid and inlet charge air.

Control System, Summary

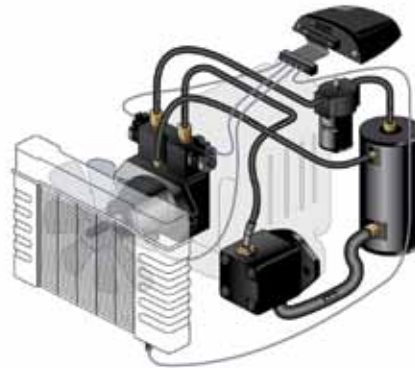
- Remote diagnostics
- Simple fault finding
- Logging functions
- Reduced power consumption
- Load dependent ramps
- Simplified controls
- Modular system architecture

Fan Drive Control

- SAE J939 CAN or analog signal inputs
- Helps reduce fan noise
- Gives proportional fan speed control
- Reversible fan direction on command or at timed intervals
- Helps meet Tier III and Tier IV engine standards

Reduce fuel consumption, improve productivity

- J1939 throttle control to match hydraulic loading
- Hydraulic system control to match engine loading
- Accurate control of multiple fans, electric or hydraulic
- Control of AC/DC driven functions to reduce engine loading



The Electronic Motion & Controls Division has global capabilities and extensive design and manufacturing expertise. Our in-depth understanding of mobile electronics makes us ideally suited to offer full, mobile electronic systems for forklifts.

Engineering Your Success

With intelligent and innovative solutions.



Whether for off-highway equipment or over the road truck and bus applications, Parker's Electronic Motion & Controls Division offers full system solutions and products to fit your needs. With worldwide engineering and manufacturing capabilities, the Electronic Motion & Controls Division has the experience, skills, and capabilities to provide solutions for virtually any mobile electronic application.

If you would like to discuss your mobile electronics applications, and how Parker's Electronic Motion & Controls Division can offer you a competitive advantage, please feel free to contact us.

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