



Mack® V-MAC® IV Electronics

Good communication is essential for any relationship. That also applies to the one between you and your truck.



Introducing V-MAC IV. Our highly intelligent, next generation of electronics.

You need to know exactly what's going on with your truck to turn a profit. Our next generation of electronics gives you the information to operate profitably. Mack Vehicle Management and Control System (V-MAC IV, for short) uses the latest technology to help you run at peak efficiency. At the heart of the system are hundreds of programmable features — from setting the engine fan drive override to anti-theft options to the most sophisticated PTO controls in the industry. V-MAC IV adds a new level of convenience with features such as programmable daytime running lights, ABS-based tamper detection and advanced engine protection. V-MAC IV is the next generation of truck electronics with a range of features to help you succeed in a competitive business.

Keeping an accurate log of trip details.

DataMax™ silently and vigilantly logs trip information to help managers make informed decisions. It's the industry's most comprehensive, standard, on-board data recorder. DataMax logs trip and life-of-vehicle operational summaries, maintenance and fault information, engine duty cycles, driver stop-and-go activities, overspeed incidents, safety-related data and so much more. Trucking runs on information. DataMax provides plenty of it.

Helping you and your truck have a productive talk.

InfoMax® is our PC-based, Windows® software that makes sense of the information collected by DataMax. Use InfoMax to configure DataMax, download its contents or view summary reports. Incredibly simple to use, InfoMax gives you only the information you need, when you need it, in easy-to-digest reports. You'll get up-to-the-minute feedback about all facets of your business — each driver, each truck, each fleet — so you can make smarter decisions.





One truck. Three brains.

When you have three sophisticated brains serving as the foundation for your electronics, you end up with one very intelligent truck. All V-MAC IV vehicles are equipped with individual control modules for the engine, instrument cluster and overall vehicle. They are all connected to each other — and ultimately to you — to provide a continuous flow of valuable information. This three-module architecture allows each brain to focus on the functions it does best, such as meeting stringent emissions standards (Engine ECU), powering the Co-Pilot™ driver display (Cluster ECU) or controlling vehicle speed (Vehicle ECU).

Electronics that raise your engine's I.Q.

The Engine ECU mounts on the new Mack MP powerplant. It monitors and controls critical functions like electronic fuel and timing control and power output. V-MAC IV is the logic behind state-of-the-art MP fuel efficiency that meets stringent federal emissions requirements. Only V-MAC IV users have a choice of an automotive or all-speed style engine governor, driver-programmable low idle speed, and full-featured engine protection, including programmable shutdown options. When coupled with the optional Co-Pilot driver display, there's a Fuel Economy Incentive Program that helps managers reward drivers for saving diesel.

Monitor your vehicle closely.

The Vehicle ECU is at the heart of the V-MAC IV system, covering hundreds of tasks, with plenty of features designed to anticipate your needs. For example, idle shutdown does more than save fuel. It can be programmed to allow additional idle time during vehicle warm-up or automatic override in certain situations — such as during PTO operation or sleeper cabin use. V-MAC IV controls up to four PTOs, each with over 20 custom programmable features that help you to tailor the electronics to your specific application.

Surround yourself with information.

The last major component in V-MAC IV is the Cluster ECU that runs the instrument cluster on the dash. V-MAC IV features all-digital instrumentation on the dash in addition to a standard tachometer, speedometer, primary and secondary air pressure, fuel level, engine oil temperature and pressure, coolant temperature levels and up to six optional gauges. Over 24 indicator lamps adorn the cluster, including water-in-fuel, wiper fluid level and engine overspeed. The Cluster ECU powers the standard Mack driver display or the optional, highly sophisticated Co-Pilot display.





It's easy to see why this is the best display on the road.

Information from the engine and vehicle is routed to a standard Cool Blue display centrally located on the instrument cluster for easy viewing while driving. Drivers can instantly see details about a truck's operation. The standard display is a sophisticated tool with plenty of helpful features such as dual trip odometers, engine hour meter, voltmeter and ambient temperature indicator. Drivers will also find indicators for maintenance, electronic faults and engine Sweet Spot — all to ensure the vehicle is running trouble-free and at peak efficiency.

Co-Pilot: Guiding you toward greater profitability.

Mack offers an optional new Co-Pilot cluster driver display. Mounted high and centered in the dash for easy reading, this large graphical display raises the industry standard. Drivers can easily toggle through a four-button steering-column stalk. This innovative display has over 50 screens that provide real-time fuel economy and trip data, detailed maintenance and fault summaries, and supplemental sensor readings. If you want to equip your truck with specialized features like Theft Deterrence, the Mack Fuel Economy Incentive Program, GuardDog™, and Integrated Temp-A-Start™, Co-Pilot is required.

Let GuardDog watch over your truck.

GuardDog is an optional, sophisticated preventative maintenance monitor that uses real-time sensors. GuardDog conveniently reduces driver or technician maintenance inspection time. It saves money by insuring your routine maintenance components go their distance and are replaced at the right time. GuardDog tracks engine oil level, engine air filter, senses water-in-fuel and other routine maintenance items. It's extra help to reduce unplanned downtime and boost efficiency.





An electronic way to conserve fuel.

Integrated Temp-A-Start — one of trucking's leading names in fuel-saving technology — has been incorporated into V-MAC IV electronics. It allows drivers to automatically stop and start the engine while idling to keep the engine warm, the batteries charged, or the sleeper cabin comfortable. Factory installation means all the components and wiring are built-in for best reliability.

Boost efficiency by managing power.

Mack improved its power management capabilities to help its trucks operate more efficiently. There's a Smart Idle™ feature that increases engine RPM to recharge the batteries when voltage falls below a given threshold. An optional Mack low-voltage-disconnect (LVD) feature cuts power to the sleeper to help the engine start if power reserves get low. Inverters and shore power are options on the 60" mid-rise and 70" sleepers to make sure drivers have the power to run household appliances and conveniently recharge batteries. These smart features ensure you always have the power you need to keep going.

