

High Idle and Lift Interlock* Electrical Load Control Capable

Features/Benefits

- Dynamic Load Response (DLR) technology; monitors engine RPM & maintains speed at all load conditions
- Charge protect on gas & diesel engines
- Automatic engagement when on A/C command is detected
- *Heater Boost* for improved cabin heat on diesel engines
- System is fully self-adjusting... No adjustments needed
- Dash-mounted control panel has LEDs to display electrical system and AFIS status
- Simple, single-point “Plug & Play” connection... Super fast installation & no cutting of factory wires
- Solid state, microprocessor controller... No additional solenoids, cables, or brackets
- Diagnostic trouble codes can be retrieved for “hard” faults & intermittent faults in nonvolatile memory
- Multiple controller capabilities (see back) **NEW**
 - Intermittent Fault Filter (IFF)[®] technology filters out erroneous changes in sensor signals
 - Communication port for *Merlin Multiplex System*
- Can be customized for bus OEM's
 - Add the *Intelligent Lift Interlock System (ILIS)* ActivationKit and it is also an ADA Title 49 and FMVSS 403/404 compliant lift interlock
 - 4 configurable electrical load outputs
- U.S. Patent No's. 6,594,565 & 6,965,819



The *Gateway^{AI}* can automatically increase engine speed anytime the vehicle voltage drops below 12.5V or A/C is operating and the vehicle is in Park. This allows for the vehicle's charging system to provide more charge back to the battery during idle conditions, and to increase air conditioning compressor speed and performance. Applying the service brake will disengage the fast idle option. Dynamic Load Response, quick and complete system diagnosis, and high system reliability make *Gateway^{AI}* the best choice for a high idle system!

*Add the *Intelligent Lift Interlock System (ILIS)* Activation Kit and it is also an ADA Title 49 and FMVSS 403/404 Compliant lift interlock.



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Gateway^{AI}

How It Works

The microprocessor-controlled Gateway^{AI} utilizes OEM sensor inputs from the transmission, engine, charging system, Air Conditioner, Ambient Air Temperature, and Vehicle Speed Sensor in order to determine that conditions are safe and high idle is needed. When all conditions are met, the Gateway^{AI} will automatically increase engine speed. The system will disengage when the driver steps on the service brake or the charging system reaches its upper limit. Engine speed is automatically maintained as loads are added or removed (ie: A/C compressor, wheelchair lift, etc.). Furthermore, the Gateway^{AI} can be manually engaged via the dash-mounted control panel whenever high idle is desired and it is safe to do so. The CPU offers complete diagnostics via live (hard) and memory codes. It also utilizes Intermittent Fault Filter (IFF)[®] technology on all sensor inputs to filter out erroneous changes in sensor signals.

When combined with the ILIS Activation Kit, the Gateway also becomes an FMVSS 403/404 compliant lift interlock. The gateway's microprocessor controls the vehicle's shift lock by processing the signals from the parking brake and lift door to electronically locking down the vehicles ability to move in an unsafe condition during lift operation.

Safe, Simple and Reliable

The Gateway^{AI} is safe, simple and reliable. The system's high reliability is due, in part, to the use of OEM connectors at each vehicle interface and an innovative use of original switches and electronics already on the vehicle. These special features eliminate the need for any additional solenoids, cables, brackets, or wire splices. A system with no moving *and* fewer parts make for a more reliable system!

Easy Installation

Manufacturers and installation shops always want a system that's easy to install. Installation of the Gateway^{AI} was simplified by using just one "plug & play" OEM vehicle connection. Just plug the Gateway^{AI} harness connector to the vehicle's data link. It's that easy!



Gateway^{AI} Control Module



ILIS501H1 Activation Kit

Gateway Product Family

Our Gateway platform is now more than a high idle and lift interlock. We have taken our popular vehicle controllers and merged them into the Gateway. This eliminates the need for two separate module installations, saving time and money.

Gateway^{DTAI}

Gateway with DuraTrans

All of the features of the Gateway/ILIS plus an overdrive controller for Ford vehicles with an OD cancel button. The controller automatically disables and enables overdrive when it is necessary, saving costs on transmission and brake wear.

Gateway^{BMAI}

Gateway with BrakeMax Controller

All of the features of the Gateway/ILIS plus a controller for Ford & GM vehicles with Tow/Haul mode. This controller engages the Tow/Haul mode on start-up of the vehicle thereby providing the fleet with maximum "Tow/Haul" mode benefits without having the driver to think about it.

Gateway^{BTSI}

Gateway with Brake/Transmission Shift Interlock

All of the features of the Gateway/ILIS plus a shift lock for the 06-08 GMT560 Chassis. This



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