

# Every mile in real-time.

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Introducing ZONAR®



**Thomas**  
BUILT BUSES®

Because every mile matters.™

## SEE THE PAST, PRESENT AND FUTURE OF EVERY SCHOOL BUS.

**Thomas Built Buses is pleased to announce that the Zonar® telematics system is now standard equipment on every Saf-T-Liner® C2 bus.**

Imagine being able to track the location, speed and fuel consumption of buses while they're out on the road. Zonar telematics does that and more. This innovative technology also has the capability to provide instantaneous ridership reporting, so you know when each student enters or exits a bus. It can even monitor driver performance, providing you with a state-of-the-art training tool. The subscription-based Zonar system gives you access to a full suite of services as well as real-time data on dozens of bus functions. Put simply, you'll be able to manage your fleet better than ever before.

Zonar telematics is one more example of the Thomas Built commitment to innovation. Our goal is to help transportation departments improve driver performance, vehicle efficiency and passenger safety. We believe this Zonar technology will help customers lower their total cost of ownership.



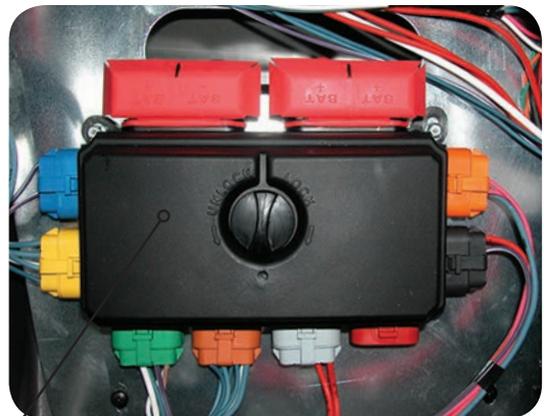


## THE MOST COMPREHENSIVE TELEMATICS SYSTEM THAT COMES STANDARD.

Other bus manufacturers offer this level of telematics as an add-on. But only Thomas Built installs the standard Zonar components at no additional cost by connecting them directly to our multiplex wiring system. This enables the telematics system to monitor multiple chassis and body features, providing immediate data. And, unlike other telematics products, ours can be configured and reconfigured over the air without rewiring. All it takes is a phone call to make changes and adjustments.



The Zonar V3 box is standard equipment on the C2 and connects directly to the multiplex wiring system.



Conventional wiring systems use separate wires to control each electrical function. The Thomas Built multiplex wiring system allows multiple electronic messages to travel back and forth through the same datalink wire, just as broadband cable allows phone, TV and Internet to travel over the same line.

## KEEP YOUR EYES ON THE ROAD AT ALL TIMES.

You'll be able to follow every Saf-T-Liner® C2 in your fleet remotely with Zonar Ground Traffic Control™, a web-based data management software platform. Customize the system for a variety of real-time alerts that monitor driver behaviors like speeding, excessive idling, hard acceleration, braking, cornering and out-of-route miles. Keep track of dozens of bus functions, including seat belt use, door opening and closing, wheelchair-lift activation, stop-arm operation and the parking brake. This robust system not only puts you in control of your buses, it will give you greater peace of mind.



The Ground Traffic Control™ software provides unmatched visibility and control. Track buses, monitor driver performance and fuel consumption, and take immediate action when issues arise.

### CURRENTLY-AVAILABLE UNIQUE FEATURES:

- Pre-trip inspection
- Post-trip inspection
- Stop sign/cross gate
- DEF tank level
- Transmission economy mode
- Regen switch status
- Heater activations
- Cruise control
- Entrance door status
- Rear door status
- Driver seat belt
- Check-mate\*
- Lift activation
- Water in fuel
- Engine idle time
- Max road speed
- Park brake status
- Vandalock status
- Low voltage
- All fault codes
- Low coolant
- Engine run
- Vehicle speed
- A/C activation
- Headlights on

\* Requires additional wiring



## IT'S LIKE HAVING AN INSTRUCTOR ON EVERY BUS.

The Zonar telematics system is the perfect tool for driver training. It lets you identify problems and skills that require improvement. It can give drivers helpful feedback, letting them know precisely how to hone their skills to improve performance, safety and fuel efficiency. You can even create incentive programs that are easily benchmarked and tracked. At Thomas Built, we understand that one of the keys to child safety and fleet efficiency is developing skilled, professional drivers. This system is designed to help you accomplish that.

## YOUR BUSES WILL MISS LESS SCHOOL.

Maximizing vehicle uptime is critical to cost containment. Zonar remote diagnostics will analyze fault codes to help you identify potential issues before they become serious. The system also automates preventive maintenance scheduling and even integrates with third-party maintenance systems. So you can manage shop resources and personnel more effectively to reduce costs.

## AT THOMAS, EVERY MILE MATTERS. AND SO DO YOUR STUDENTS.

The Saf-T-Liner® C2 wiring system enables easy aftermarket installation of the ZPass™ ridership reporting feature by Zonar. This Edison Award-winning technology passively tracks when students enter and exit a bus. Students simply swipe their RFID card as they get on and off. The time, date and location are logged and immediately accessible to fleet managers. The ZPass system ensures safety compliance and helps schools respond quickly in case of an emergency.

## STUDENTS ARE BETTER OFF WHEN PARENTS ARE INVOLVED.

The ZPass+ feature allows parents to be notified instantly via email or phone, of the date, time and location their child has boarded and exited the bus. They can also keep track of bus locations on a map in real time, receiving estimates on arrival times. Schools can even send emails to parents about delays and schedule changes. Of course, all features are set and controlled by each school system to meet their specific needs. And the ultimate goal is to provide the highest level of child safety and security possible. To learn more, visit [www.zpassplus.com](http://www.zpassplus.com), or talk to your Thomas Built dealer.



*Riders scan RFID cards when they enter or exit the bus. This is an especially popular feature for field trips.*



*The ZPass+ mobile app allows parents to know instantly when and where their child entered or exited a school bus.*





## IS THIS THE RIGHT LONG-TERM INVESTMENT FOR YOUR SCHOOL SYSTEM?

Telematics technology is gaining momentum with vehicle fleets across North America – from national trucking companies to local school systems. Implemented properly, telematics can greatly improve driver performance, vehicle uptime and fuel efficiency, which are primary factors that lead to a lower total cost of ownership.

Even if your school system doesn't currently take advantage of telematics-enhanced transportation management, it's likely to in the future. With the Thomas Built Saf-T-Liner® C2 and factory-installed Zonar, you will be prepared to improve the operational efficiency of your fleet, and the safety of your students. And you won't have to pay additional installation costs for the standard Zonar package, making your return-on-investment much more attractive.

Talk to your Thomas Built Buses dealer to learn more about planning and implementing a vehicle telematics system with the industry-favorite Saf-T-Liner C2.



### THE THOMAS ADVANTAGE

Founded in 1916, Thomas Built Buses is a leading manufacturer of school buses in North America. Since the first Thomas Built bus rolled off the assembly line, the company has been committed to delivering the smartest and most innovative buses in the industry. Each bus comes with thorough market expertise, an extensive dealer network and all the customer support, service and parts availability you need. To learn more or find a local dealer, visit [www.thomasbus.com](http://www.thomasbus.com).



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