



Trailer Family Products

**MERITOR WABCO**

*Safety Strong. Efficiency Smart.*

## Intelligent Trailer.

Meritor WABCO is a leader in developing innovative trailer products and systems that take performance, safety and low cost of ownership to the next level.

From the most advanced electronic braking system technology to leading-edge diagnostic software, Meritor WABCO is the only name you need to know for advanced trailer solutions.

## Pneumatic Trailer Anti-Lock Braking Systems (ABSs).

Meritor WABCO is a true innovator in trailer ABS technology, introducing the first commercial trailer ABS in 1993. Since then, we've continued to innovate in ways that result in lighter-weight design, less hardware and more efficient air brake system performance. Enhanced Easy-Stop Trailer ABS provides unparalleled trailer monitoring and control capabilities to fleets and owner-operators, with system configurations to meet virtually any trailer application.



### 2S/1M.

A 2-sensor/1-ABS single modulator valve system provides increased assistance to the driver in maintaining control and directional stability while meeting FMVSS 121 certification requirements. Recommended for converter dolly and semi-trailer applications.

### 2S/2M.

A 2-sensor/2-ABS dual modulator valve system delivers increased assistance to the driver in maintaining control and directional stability. Recommended for single- and tandem-axle semi-trailers.

### 4S/2M.

A 4 sensor/2ABS dual modulator system that provides optimal side-by-side control and additional performance and protection against tire flat spotting. A third relay valve is available for multi-axle warranty applications. Recommended for tandem-axle semi-trailers, multi-axle or full trailers.

## Competitive Features:

- Individual replaceable Electronic Control Unit (ECU) and ABS modulator valves save maintenance time and reduce costs
- All have notebook function allows Vehicle Identification Number (VIN), trailer number, major-component part number, trailer maintenance information and free-form text to be stored in the ECU – all accessible through TOOLBOX software
- Service interval indicator allows a predetermined service interval to be stored within the system
- Tamperproof electronic odometer tracks trailer mileage
- Trailer diagnostics can be conducted through the tractor ABS using TOOLBOX software
- PLC communication for the transfer of trailer data to an in cab display or telematics system
- 3-year/300,000 Mile Parts and Labor coverage under Meritor WABCO's comprehensive warranty

## Roll Stability Support (RSS).

Meritor WABCO Roll Stability Support systems for trailers incorporates industry-leading ABS performance, key safety features and improved roll mitigation. These systems help maintain trailer and overall vehicle stability, while integrating ABS, Power Line Carrier (PLC) communication for the transfer of trailer data to an in-cab PLC display, plus telematics capability for transmitting real-time trailer data to fleet headquarters.

Trailer wheel speed, lateral acceleration and suspension pressure are simultaneously monitored. If the vehicle approaches its rollover threshold, the system automatically applies trailer brakes as needed in order to reduce the risk of rollover and help the driver bring the vehicle under control.

Meritor WABCO Roll Stability for trailers provides excellent stability even if your tractor is not equipped with a tractor stability control system. Effectiveness is even greater when your tractor is equipped with Meritor WABCO SmartTrac.

**RSS 2M** is an advanced 4-sensor/2-modulator roll mitigation system that provides independent side-by-side control for optimum rollover mitigation along with additional ABS control and tire protection. Target vocations: tankers, hazardous materials and retrofits.

**RSS 1M** is a 2-sensor/1-modulator system with advanced performance for a lightweight, economical solution. Target vocations: vans, reefer units, flatbeds and retrofits.

## Competitive Advantages Snapshot.

- Supports both spring and air-ride suspensions
- Integrated filters for both control and supply air
- Optional stoplight power cable to illuminate the brake lights during an RSS event

- Provides five generic I/O ports to monitor customer-defined functions such as tire inflation system status, ThermALERT™ hot wheel-end warning, tag axle and lift axle control, lining wear, reefer zone, fuel status, back up light and more
- Treated cast valve provides strength and durability as well as eliminates thermal expansion issues over valve life
- Individually serviceable ECU and valve components reduce service costs
- Integrated PLC provides instant transmission of stability events to tractor-installed telematic devices

**RSS 2M and RSS 1M:** designed specifically for the North American market.

- Supports both spring and air-ride suspensions
- Provides a 50% reduction in electrical system demand during active braking due to pulsing of solenoids
- Incorporates diagnostics and meets SAE recommendations using Tool Box™ software, PC or simple blink codes and PLC at nose of trailer
- Includes onboard data recording for effective fleet management
- Includes 3-Year/300,000-Mile Parts and Labor coverage under Meritor WABCO comprehensive warranty
- Available for aftermarket retrofits or trailers already equipped with Meritor WABCO ABS or a different ABS brand



## Trailer Air Filtration.

Trailer air filtration from Meritor WABCO protects your trailer's air brake system from contaminants while maximizing trailer uptime. Innovative features include an in-line filter that's designed to protect your ECU valve as well as the supply line.

Meritor WABCO air filtration inhibits damaging particles from reaching the trailer's air brake system. Here's how: When the tractor and trailer are connected, compressed air from the tractor flows to the trailer's air brake system, carrying dirt particles with it. Our filters trap these particles so that clean air is sent through the trailer air system.

- Offer both in-line or gladhand-style air filters
- Simple installation with easy access for servicing
- The in-line filter has minimal impact on FMVSS 121 application/release timing requirements
- Will not interfere with the build process
- Easy servicing of the filter cartridge
- Warranty extended to 4-Years/400,000-Miles parts only on the ABS modulator valve

## PLC Display.

Meritor WABCO's in-cab PLC Display allows real-time communications between the tractor and trailer concerning the condition of trailer-mounted systems when used with InfoLink.™ PLC Display is capable of providing drivers with a broad range of vital data. It enables complete monitoring of the ABS and other important functions. And it's compatible with the Meritor® Tire Inflation System (MTIS™) by P.S.I. to monitor low tire pressure or elevated wheel-end temperatures. It also provides fleets with telematics capability to monitor equipment status, critical events and service requirements. PLC Display is cost-effective and easy to install, operate and maintain.

- Easy-to-read screen mounts on or near vehicle instrument panel
- Provides both basic and full-function messages and displays up to seven inputs/outputs (five digital, two analog) when used with an ECU that has InfoLink capability
- Provides basic messaging on trailers equipped with Meritor WABCO Enhanced Easy-Stop Trailer ABS
- Any Meritor WABCO trailer ABS produced after March 2001 has the capability to send VIN, mileage and fault code information to the PLC Display



**Meritor WABCO's Lift Axle system supports various trailer configurations. For more information, call the customer service team at 888-725-9355 or visit [www.meritorwabco.com](http://www.meritorwabco.com).**

## InfoLink.™

Meritor WABCO InfoLink technology facilitates vital two-way communications between tractor and trailer for monitoring and controlling key functions. Acting as a command center, InfoLink processes vital information and delivers seamless data transmission using standard J1587 protocol. This information can be shared with the driver as well as delivered to the home office via telematics devices such as computers and cell phones. Multiple functions can be monitored and controlled when the system is used in conjunction with Meritor WABCO's Enhanced Easy-Stop Trailer ABS. These functions include wheel-end temperatures, brake lining wear, air reservoir pressure, lift and tag axle control systems and reefer data. Additionally, the InfoLink architecture is designed to be compatible with emerging telematics technologies to meet future fleet communications requirements.

## PLC DataMaster.™

The Meritor WABCO DataMaster is a rugged, self-contained handheld device – designed for fleets that typically have a large number of detached trailers parked – and makes extraction of vital trailer information fast and easy. Simply connect it to a parked trailer's J560 seven-way connector, enter a few simple keypad commands, and the 20-character display shows vital trailer statistics related to ABS status codes, trailer identification and odometer readings. A sophisticated memory system can extract readings from up to 255 trailers, streamlining the retrieval process and reducing the volume of paperwork.



- Advanced memory system
- Compatible with Meritor WABCO Enhanced Easy-Stop ABS and utilizes PLC communications
- Smart rechargeable battery system allows maximum uptime
- No need for PC interface
- Rugged, practical and built to withstand the rigors of daily use in trailer yards

## TOOLBOX Software.

TOOLBOX is the latest PC-based diagnostics and troubleshooting software for Meritor WABCO pneumatic and hydraulic ABS, electronic leveling modules and electronically controlled air suspensions.



Highly intuitive and easy to use, TOOLBOX helps technicians be more efficient and productive and minimizes vehicle downtime. The software displays both active and stored system faults as well as the corresponding repair instructions. It can display both constant and dynamic information from the braking system under test, and can activate components to verify system integrity, correct component operation and installation wiring.

TOOLBOX supports the complete range of Meritor WABCO vehicle control products:

- Pneumatic ABS (D and E versions)
- Trailer ABS (Easy-Stop and Enhanced Easy-Stop with PLC)
- Trailer RSS*plus*™

## Trailer solutions to keep you well out front.

For more information on best-in-class Meritor WABCO trailer products, call our OnTrac customer service team at 866-OnTrac1 (668-7221) or visit [www.meritorwabco.com](http://www.meritorwabco.com).



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Meritor WABCO Vehicle Control Systems  
2135 West Maple Road, Troy, Michigan 48084, USA  
Phone: 866-ONTRAC1 (866-668-7221) Fax: 248-435-8002

[meritorwabco.com](http://meritorwabco.com)

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